

## Curriculum Vitae (CV) of Dr. Nusrat Jahan

B.Sc. A.H. (Hons.) & MS (BAU), PhD and Postdoc. (Italy), PGT (Vienna, Austria)

Email: [Jahannusrat62@yahoo.com](mailto:Jahannusrat62@yahoo.com)

Nusrat.jahan\_angb@sau.edu.bd

Mobile: +8801742367236

1. **Name:** Dr. NUSRAT JAHAN
2. **Father's Name:** Md. Sayeedur Rahaman
3. **Mother's Name:** Mrs. Hamida Rahaman
4. **Permanent Address:** Village-Naria, Post Office-Naria, Thana-Naria, District-Shariatpur, Bangladesh.
5. **Present & Mailing address:** House # Dolonchapa (1<sup>st</sup> Floor), Teacher's quarter, Sher-e - Bangla Agricultural University, Dhaka-1207, Bangladesh.
6. **Nationality:** Bangladeshi.
7. **Marital Status:** Married
8. **Date of Birth:** 01<sup>st</sup> January, 1984
9. **Academic Qualifications:**

Degree	Passing Year	Board/University	Institution	Result
PhD (Doctor of Philosophy) Duration of study: 3 years	February 2014	Doctoral School of Agrisystem, Institute of Zootechnics, Università Cattolica del Sacro Cuore, Via Emilia Parmense, 84 29122 Piacenza, Italy		PhD Awarded
MS (Master of Science) in Animal Breeding and Genetics	2009	Bangladesh Agricultural University, Mymensingh.		Grade: A (GPA – 3.906 out of 4)
		MS Thesis Title: <i>Collection, grading and</i>		

Duration of study: 1.5 years		<i>evaluation of Buffalo's cumulus-oocytes-complexes [COCs] for in vitro maturation.</i>		
B.Sc. in Animal Husbandry (Hon's) Duration of study: 4 years	2007	Bangladesh Agricultural University, Mymensingh.	Bangladesh Agricultural University, Mymensingh.	Grade: A (GPA – 3.776 out of 4)
Higher Secondary Certificate (H.S.C.) Duration of study: 2 years	2001	Dhaka	Viquarunnesa Noon School & College	First Division (72.7%)
Secondary School Certificate (S.S.C.) Duration of study: 10 years	1999	Dhaka	Motijheel Govt. Girls' High School	First Division(*) (85.1%)

#### 10. Job Experiences:

Name of employer	Location	Position	Field
Department of Animal Nutrition, Genetics and Breeding, ASVM, SAU Duration: 19/12/2023- present	Sher e Bangla nagar, Dhaka-1207	Assistant Professor	Animal Genetics and Breeding
National Institute of Biotechnology, Bangladesh Government, Bangladesh Duration: 23/06/2016 to 18/12/2023	Savar, Dhaka, Bangladesh	Senior Scientific Officer(6 <sup>th</sup> grade)	Animal Genetics and Biotechnology

College of Agricultural Sciences, IUBAT- International University of business Agriculture and Technology.	Dhaka, Bangladesh	Faculty member	Animal Sciences and Environmental Biotechnology
Istituto di Zootechnica, Università Cattolica del Sacro Cuore.	Piacenza, Italy.	Post-doctoral Researcher	Animal genetics
Institute of Animal Nutrition University of Veterinary Medicine.	Vienna, Austria.	Student Researcher	Animal Biotechnology
Bangladesh Agricultural University, Mymensingh in the project entitled “In vitro production of Buffalo Embryos” funded by Ministry of Science, Information and Communication Technology (MOSICT), Bangladesh.	Mymensingh, Bangladesh	Student Researcher	Reproductive Biotechnology
Different related institutes in Bangladesh.	Bangladesh	Internship	Animal Husbandry

### 11. Professional Trainings:

- ❖ Several relevant training in biotechnological techniques, bioinformatics, statistics and service rules of government.
- ❖ Training on “Strengthening Pedagogical Skills of Teachers” supported by USAID-Funded Asia Farmer-to Farmer (F2F) program, Winrock International, held at IUBAT- International University of business Agriculture and Technology, from 10 to 12 February, 2015.
- ❖ 12 days training on Statistical programme ‘R’ entitled “*INNOVAGEN* Winter School 2013” at Università Cattolica del Sacro Cuore, Italy.
- ❖ 12 days training on ‘Basics of Microsoft Office’ from the Graduate Training Institute, Bangladesh Agricultural University, Mymensingh.
- ❖ 15 days training on Data Analysis: MStatc and SPSS from the Graduate Training Institute, Bangladesh Agricultural University, Mymensingh.
- ❖ A week long Extension Field Trip (Practical courses of Agricultural Extension Education) at Madhupur Upazilla of Tangail District, Bangladesh.

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### 12. Computer Literacy:

- ❖ Statistical programme SAS, R
- ❖ MSTAT, SPSS
- ❖ MS word, MS excel and Power point, Adobe Photoshop, etc. Internet browsing, E-mail, Internet application software and other utilities

### 13. Language Proficiency

- ❖ Fluent in English, can write and speak very well.
- ❖ The medium of instruction for Under-graduate, graduate and the PhD level was English.
- ❖ Italian (able to read, write and speak Italian language well)(Attended 3 months long Italian language course in Italy).

#### 14. Experience in implementing project

Implemented several national and international funded projects in the field of molecular biotechnology, reproductive biotechnology and animal's physiology and their related health problems. Especially projects from National Institute of Biotechnology, Research project of "Establishment of National Gene Bank Project" under the Ministry of Science and Technology, Special Allocation projects of MOST and The World Academy of Science (TWAS), Trieste, Italy etc.

#### 15. List of Post doctoral Fellow, Post graduate Fellow and MS Student Supervision

Serial no.	Student Name	University Name	Year
01.	Dr. Md. Sharifull Islam	Postdoctoral Research Fellow, Animal Biotechnology Division National Institute of Biotechnology, NIB	2021-2022
02.	Saymon akter	Post Graduate Fellow, Animal Biotechnology Division NIB	2021-22
03.	Muhammad wasim	Research Fellow	2019-2020
04.	Shoriful Rahaman	Research Fellow	2020-2022
05.	Abdus Sabur	Research Fellow	2022-2023
06.	Sanila Mehjabin Sumaiya	Bangobondhu Sheikh Mujibur Rahman Science and Technology University, Gopalgong	2023
07.	Soumik Tripura	Mawlana Bhashani Science and Technology University, Santosh, Tangail-1902	2023

08.	Kowshik Roy Munna	Jahangirnagar University	2022
09.	Md. Faiz Ullah Pias	Shahjalal University of Science and Technology	2022
10.	Muhammad wasim	MawlanaBhashani Science and Technology University	2020

## 16. List of Publications:

### A. Publications:

1. Isolation, Identification and Molecular Characterization of Lumpy Skin Disease Virus for Development of Vaccine A. A. Bhuyan\*, J. Alam, J. Khanom, N. Moonsif, Rubaya, M. A. Alim, M. M. Kamal Hossain, **N. Jahan** and M. Salimullah National Institute of Biotechnology, Ganakbari, Ashulia, Savar, Dhaka-1349

2. **Nusrat Jahan**, Muhammad Wasim, Rubaya Rubaya, Kazi Rafsan Radeen, Md. Abdul Alim, M. M. Kamal Hossain, Fatama Tous Zohora, Keshob Chandra Das, Md.Salimullah, Anjuman Ara Bhuyan & Jahangir Alam (2022): Sequence variability of CatSper1 and TNP2 gene in indigenous and crossbred cattle in Bangladesh, Animal Biotechnology, DOI:10.1080/10495398.2022.2063729

3. **Nusrat Jahan**, Andrea Minuti, Sadek Ahmed and Erminio Trevisi, 2020. Metabolic, inflammatory and immune adaptation in periparturient dairy cows and their predictive tools. Asian J. Biol. Sci., 13: 237-346.

4. **N. Jahan**, A. Minuti, E. Trevisi. 2015. Assessment of immune response in periparturient dairy cows using *ex vivo* whole blood stimulation assay with lipopolysaccharides and carrageenan skin test. Veterinary Immunology and Immunopathology.165:119-126.

5. **N. Jahan**, S. Ahmed, M.O. Faruque and M.A.M.Y. Khandoker, 2011.Collection, grading and evaluation of buffalo's cumulus-oocyte-complexes for in vitro maturation. Bangladesh Journal of Livestock.Research. 18(1&2):1-6, ISSN 1022-385.

6. Jahangir Alam, Md. MostafizerRahman, JoyantaHalder, Md. Rezuanul Islam, Nandini Sarkar, Ishrat Jabeen, Mridha Md. Kamal Hossain, RubayaRubaya, Md. Abdul Alim, AnjumanAraBhuyan, **Nusrat Jahan**, Md. MasudurRahmanand Hossam M. Ashour.**2022**. Myxovirus resistance (Mx) Gene Diversity in Avian Influenza Virus Infections. Biomedicines 10, 2717. <https://doi.org/10.3390/biomedicines10112717>.

7. Ariful Islam, Joyanta Halder, ATM Mijanur Rahman, Asad Ud-Daula, Salah Uddin, Mridha Kamal Hossain, **Nusrat Jahan**, Abdul Alim, Anjuman Ara Bhuyan, Rubaya, Mahmud Hasan & Jahangir Alam (2021), Meat origin differentiation by polymerase chain reaction-restriction fragment length polymorphism, *International Journal of Food Properties*, 24:1, 1022-1033, DOI: 10.1080/10942912.2021.1953068
8. Rahman Sumaiya, Hossain Md. Imam, Hossain Mridha Md. Kamal, Alim Md. Abdul, **Jahan Nusrat**, Islam Md. Ariful, Rubaya, Salimullah Md, Bhuyan Anjuman Ara, Alam Jahangir, 2020 . Genotyping of cattle based on kappa-casein and alpha-lactalbumin genes. *Indian Journal of Biotechnology*, Vol. 19, July 2020, pp 211-218.
9. S. Ahmed, M.R.H. Rakib, M.A. Hemayet, B.K. Roy, **N. Jahan**, 2020. Effect of total mixed ration based complete pellet feed on the performances of stall fed native sheep. *SAARC J. Agric.*, 18(2): 157-166 (2020) DOI: <https://doi.org/10.3329/sja.v18i2.51116>
10. Sadek Ahmed, Md Rezaul Hai Rakib, Md. Abu Hemayet, Biplob Kumer Roy, **Nusrat Jahan**, 2020. Effect of complete pellet feed on commercial goat production under the stall feeding system in Bangladesh. *Journal of advanced veterinary and animal research*. vol 7, no. 4, pages 704–709.
11. Andrea Minuti, **Nusrat Jahan**, Fiorenzo Piccioli-Cappelli, Lorenzo Bomba, Stefano Capomaccio, Juan Llor, Paolo Ajmone-Marsan, Erminio Trevisi. 2019. Evaluation of circulating leukocyte transcriptome and its relationship with immune function and blood markers in dairy cows during the transition period. *Functional & Integrative Genomics*, 20, pages 293–305. <https://doi.org/10.1007/s10142-019-00720-0>
12. Alim MA, Hossain MMK, Alam J, **Nusrat J**, Rubaya, Salimullah M, Shu-Hong Z, 2019. Genetic effects of Leptin receptor (LEPR) polymorphism on litter size in the Black Bengal goat population, *Animal Biology Journal*.
13. Sadek Ahmed, Md. Rezaul Hai Rakib, Rahat Ara Karim, Swapon Kumar Fouzder, **Nusrat Jahan**, Nasrin Sultana, Md. Ershaduzzaman. 2017. Pre and Post-natal Nutrition of Ewes on the Performances of Native Bengal Ewes and Their Lambs. *Animal and Veterinary Sciences*. 5(2): 33-38.
14. E. Trevisi, **N. Jahan**, G. Bertoni, A. Ferrari, A. Minuti, 2015. Pro-inflammatory cytokines profile in dairy cows: consequences for new lactation. *Italian Journal of Animal Science*. 14:3862: 285-292.
15. A. Minuti, S. Ahmed, E. Trevisi, F. Piccioli-Cappelli, G. Bertoni, **N. Jahan** and P. Bani, 2014. Experimental acute rumen acidosis in sheep: consequences on clinical, rumen, gastrointestinal permeability conditions and blood chemistry. *Journal of Animal Science*, Volume 92, Issue 9, September 2014, Pages 3966–3977, <https://doi.org/10.2527/jas.2014-7594>.

16. M.A.M.Y. Khandoker, **N. Jahan**, L. Asad, S.A.M. hoque, S. Ahmed and M.O. Faruque, 2011. Qualitative and quantitative analysis of buffalo ovaries, follicles and oocytes in view of in vitro production of embryos. *Bang. J. Anim. Sci.* 409(1-2):23-27.

17. Nusrat Jahan, Andrea Minuti, Giuseppe Bertoni, Annarita Ferrari, Sadek Ahmed, Erminio Trevisi, 2021. **Pro-inflammatory cytokines as indicators of health status around calving in dairy cows**. Submitted to Italian Journal of Animal Science.

18. Sadek Ahmed, Md. Rezaul Hai Rakib, Morsheda Yesmin, Nasrin Sultana, **Nusrat Jahan**, Md. Ershaduzamman, 2018. Evaluation of lamb production potentiality of the Barind, Jamuna River Basin and coastal region sheep of Bangladesh under intensive management. *Journal of Advanced Veterinary and Animal research, Bangladesh*, Vol 5 No 1: 37-43.

#### **B. Proceedings in the international/national conferences:**

1. **Nusrat Jahan**, Muhammad Wasim, Rubaya Rubaya, Kazi Rafsan Radeen, Md. Abdul Alim, M.M. Kamal Hossain, FatamaTousZohora, Keshob Chandra Das, Md. Salimullah, Anjuman Ara Bhuyan, Jahangir Alam. Sequence variability in CatSper1 and TNP2 gene associated with semen quality and fertility in crossbred and native cattle population of Bangladesh Conference. Submitted to One Health Bangladesh Conference.

2. M. M. Kamal Hossain, Md. Salah Uddin, A.T.M. Mijanur Rahman, Asad Ud-Daula, Md. Ariful Islam, AnjumanAra Bhuiya, Md. Abdul Alim, **Nusrat Jahan**, Rubaya Rubaya, Jahangir Alam. Antimicrobial resistance genes in *E. coli* isolated from frozen broilers. Submitted to One Health Bangladesh Conference.

3. Jahangir Alam, Md. Mostafizer Rahman, Joyanta Halder, Md. Rezuhanul Islam, Nandini Sarkar, Ishrat Jabeen, MM Kamal Hossain, Rubaya Rubaya, **Nusrat Jahan**, Md. Abdul Alim, Anjuman Ara Bhuyan, Diversity of Myxovirus resistance gene (Mx) and its relation with avian influenza infection in indigenous chicken. Submitted to One Health Bangladesh Conference.

4. Alam, M. M. K. Hossain, A. Ara, A. Alim, **N. Jahan**, Rubaiya, A. Hsan, F. Hossain, B. C. Sutradhar, A. Ali, Md.R. Islam, Md. N. amin, S. Sultana, Md. Asaduzzaman, Md. Salimullah, 2019. Retrospective analysis of pet animal diseases. *BSVER Publication No. 44*, 0-17, p-49.

5. **Nusrat Jahan**, Mst. Rubaya, Jahangir Alam, Md. Abdul Alim, Mridha Md. Kamal Hossain, Md. Salimullah. 2019. Polymorphism in CatSper1 Gene in Crossbred (Holstein Friesian x Deshi) Cattle in Bangladesh. 14th Asian Congress on Biotechnology (ACB 2019) held on 1-4 July, 2019, Taipie, Taiwan.

6. **Nusrat Jahan**, Andrea Minuti, Giuseppe Bertoni, Annarita Ferrari, Sadek Ahmed, Erminio Trevisi, 2018. **Pro-inflammatory cytokines as indicators of health status around calving in dairy cows**. 4th International Exhibition on Dairy, Aqua and Pet,

organized by Animal Health Companies Association of Bangladesh (AHCAB), held on 8-10 March 2018.

7. Jahangir Alam, Sayeeda Monira Rahman, **Nusrat Jahan**, Mridha Md. Kamal Hossain, Shohel Mahmud, Md Ariful Islam, Md. Abdul Alim, Md. Humayun Kabir, Salma Akter, Md. Salimullah.2018. Existence of A1 and A2 allele of Beta-casein gene in cattle in Bangladesh. 4th International Exhibition on Dairy, Aqua and Pet, organized by Animal Health Companies Association of Bangladesh (AHCAB), held on 8-10 March 2018.
8. Rahman Sumaiya, Hossain Md. Imam, Hossain Mridha Md. Kamal, Alim Md. Abdul, **Jahan Nusrat**, Islam Md. Ariful, Rubaya, Salimullah Md, Alam Jahangir, 2018. Genotyping of cattle based on kappa-casein and alpha-lactalbumin genes. 4th International Exhibition on Dairy, Aqua and Pet, organized by Animal Health Companies Association of Bangladesh (AHCAB), held on 8-10 March 2018.
9. Jahangir Alam, **Nusrat Jahan**, Mridha Md. Kamal Hossain, Sayeeda Monira Rahman, Shohel Mahmud, Md Ariful Islam, Md. Abdul Alim, Md. Humayun Kabir, Salma Akter, Md. Salimullah, 2017. Devil in the milk: relevant genetic makeup of cattle in Bangladesh. Conference of one health Bangladesh held on 17-18 september, 2017.
10. Andrea Minuti, **Nusrat Jahan**, Matteo Mezzetti, Fiorenzo Piccioli-Cappelli, Lorenzo Bomba, Stefano Capomaccio, Juan J. Loor, Paolo Ajmone-Marsan, Erminio Trevisi, 2017. Relationship between blood energetic markers and circulating leukocytes transcriptome in transition dairy cows. ASPA 22<sup>nd</sup> congress Book of Abstracts, Italian Journal of Animal Science 2016: sup 1, 1-280. DOI: 10.1080/1828051X.2017.1330232.
11. Minuti A, **Jahan N**, Piccioli-Cappelli F, Bomba L, Capomaccio S, Loor JJ, Ajmone-Marsan P, Trevisi E,2016. Evaluation of immune function of circulating leukocytes during the transition period in dairy cows. Joint annual meeting held on 19-23 july, 2016 at salt lake city, UTAH.
12. S Ahmed, RA Karim, N Sultana, **N Jahan**, M Ershaduzamman and MAI Talukder, 2015. Effect of pre and post-natal nutrition on the performances of ewes and their lambs. Annual Research Review Workshop, Bangladesh Livestock Research Institute, Savar, Dhaka-1341, Bangladesh. Held on 17-18 June, 2015, Pp. 15-16.
13. Andrea Minuti, **Nusrat Jahan** and Erminio Trevisi. Pro-inflammatory cytokines profile in dairy cows: consequences and success of new lactation. 3rd Workshop: Health and Nutrition in High-Yielding Dairy Cows. Held on 10/04/2014 - 11/04/2014 – BASF, Ludwigshafen, Germany.
14. Minuti Andrea, **Jahan Nusrat**, Ferrari Annarita, Trevisi Erminio. Valutazione della risposta immunitaria nel periparto di bovine da latte tramite stimolazione ex vivo con lipopolisaccaridi. IX CONFERENZA NAZIONALE della SOCIETA' ITALIANA di IMMUNOLOGIA, IMMUNOLOGIA CLINICA E ALLERGOLOGIA (SIICA) - Simposio di Immunologia Veterinaria, Firenze, 28 Maggio 2014(LanguageItalian).
15. **Jahan Nusrat**, Minuti Andrea, Ferrari Annarita, Trevisi Erminio. Proinflammatory cytokine profiles during transition period of dairy cows. 10<sup>th</sup> International Veterinary Immunology Symposium, Milan, Italy on 28<sup>th</sup> August – 1<sup>st</sup> September, 2013.
16. Andrea Minuti, **Nusrat Jahan**, Giuseppe Bertoni, Erminio Trevisi. Carrageenan skin test to assess inflammatory response in periparturient dairy cow: preliminary results. 20<sup>th</sup>

ASPA CONGRESS. Animal Science and Production Association. Bologna 11-13 June 2013. Italy.

17. Khandoker M.A.M.Y., Goswami P.C., Rahman M.G.M., Ali M.R., Islam M.R., Ferdous J., Pervage S., Mondal A., Hoque S.A.M., **Jahan N.**, Akter Q.S., Tareq K.M.A. and Mia M. (2009). Status and prospects of *in vitro* production of mammalian embryos in Bangladesh. Presented in The 6<sup>th</sup> Annual Conference of the Asian Reproductive Biotechnology Society. Held in 16-20 November 2009, Siem Reap, Cambodia.
18. Khandoker M.A.M.Y., **Jahan N.**, Hoque S.A.M., Akter Q.S., Tareq K.M.A., Mia M. and Faruque M.O., (2010). In vitro maturation of buffalo embryo. Presented in International Dairy Conference, Held in 03-05 April 2010, Bangladesh Agricultural University, Mymensingh, Bangladesh

### 17. Research interest, skills and abilities

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*Research interest*

My research interest is in the area of animal breeding and genetics especially molecular biotechnology, reproductive biotechnology and animal's physiology, more specifically- immune, inflammatory and metabolic status of animals and their related health problems. Study the gene expressions that are associated with fertility, susceptibility to immune and metabolic diseases of animals. I am interested to define better the reproductive features and physiology of animals for the improvement of management system as well as for the economic benefits of farms.

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(Dr. Nusrat Jahan)

