

# Curriculum Vitae

## Dr. Nilabja Roy Chowdhury

B.V.Sc. & A.H. (D.V.M.) ; M.V.Sc. (Veterinary Biochemistry)

### ❖ Personal Information

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<i>Present Address</i>	Department of Veterinary Biochemistry, Faculty of Veterinary & Animal Sciences, West Bengal University of Animal & Fishery Sciences, Kolkata-700037
<i>Permanent &amp; Corresponding Address</i>	Sarala Bhaban, South Habra, Habra, P.O. & P.S.: Habra, District: North 24 Parganas, West Bengal, India. Pin Code: 743263
<i>Ethnicity</i>	Indian
<i>Languages Known</i>	English, Hindi, Bengali

### ❖ Academic Qualifications

Degree	Institution	Year of Passing	Grades (% or OGPA)	Board/ University
Post-Graduation (Master of Veterinary Science in Biochemistry)	Faculty of Veterinary & Animal Sciences, West Bengal University of Animal & Fishery Sciences, West Bengal, India	2021	9.445	West Bengal University of Animal & Fishery Sciences
Graduation (Bachelor of Veterinary Science & Animal Husbandry,)	Faculty of Veterinary & Animal Sciences, West Bengal University of Animal & Fishery Sciences, West Bengal, India	2019	8.02 (1 <sup>st</sup> Class with Distinction)	West Bengal University of Animal & Fishery Sciences
Intermediate	BKTPP Prabir Sengupta Vidyalaya, West Bengal, India	2014	85.2% (1 <sup>st</sup> Class with Star)	W.B.C.H.S.E. Board, West Bengal, India
High School		2012	93.14% (1 <sup>st</sup> Class with Star)	W.B.B.S.E. Board, West Bengal, India

## ❖ Research Experience

M.V.Sc. Dissertation

*Investigation on Integration of Reticuloendotheliosis Virus Sequence within the Genome of some Commercial Vaccine Strains and Field Isolates of Fowl Pox Virus in India*

Accomplishments

Identification of provirus of Reticuloendotheliosis virus from the Wild Fowl Pox Viruses and proviral segments from commercial fowl pox vaccine viruses with the use of PCR was done. Wild fowl pox viruses were cultured via dropped Chorio-allantoic Membrane Method in Embryonated Chicken Eggs and Chicken Fibroblast Cultures. Identification of free virion of REV from the fowl pox affected cells via cDNA synthesis from the extracted RNA. Histopathology of the fowl pox scabs, organs and CAMs of the FPV affected birds and eggs respectively. Also, traces of the avian retrovirus from the mammalian origin were found by comparing the genetic segments of REV with mammalian endogenous retroviruses coding for the syncytin-1 gene during gestation. This revealed 72-89% homology between the avian retrovirus and mammalian endogenous retroviruses.

## ❖ Research Interests

- ✓ Virologic studies and vaccinology
- ✓ Vaccine development
- ✓ Drug development and re-use
- ✓ Artificial metabolomics
- ✓ Diagnostic tools development
- ✓ Cancer biology

## ❖ Professional & Research Skills

- |   |                              |  |
|---|------------------------------|--|
| ✓ Genomic DNA Isolation                         | ✓ RNA Isolation              | ✓ Plasmid Isolation  |
| ✓ cDNA synthesis                                | ✓ PCR                        | ✓ RT PCR   |
| ✓ qPCR  | ✓ Gel Electrophoresis        | ✓ Molecular Cloning  |
| ✓ SDS-PAGE                                      | ✓ ELISA                      | ✓ Bacterial Culture maintenance and propagation  |
| ✓ Virus culture                                 | ✓ Basics of cell-culture     | ✓ Laboratory animal handling for challenge studies and sample collection                 |
| ✓ Microscopy for histopathological examinations | ✓ Histopathological staining | ✓ Basic bioinformatic analyses like Primer Designing, Sequence and phylogenetic analyses |
| ✓ Treatment of Animals and Birds                | ✓ Emergency medicine         | ✓ Basic computer skills: MS Word, Excel etc.   |

## ❖ Publications

1. DAS, A. K., NANDA, P. K., **CHOWDHURY, N. R.**, DANDAPAT, P., GAGAOUA, M., CHAUHAN, P., PATEIRO, M., & LORENZO, J. M. (2021). Application of Pomegranate by-Products in Muscle Foods: Oxidative Indices, Colour Stability, Shelf Life and Health Benefits. *Molecules*, 26(2), 467. <https://doi.org/10.3390/molecules26020467>
2. DAS, A. K., **CHOWDHURY, N. R.**, NANDA, P. K., DANDAPAT, P., BATABYAL, S., BISWAS, S., & DAS, P. K. (2020). Role of gut microbiota modulation in health and production of pigs. *Indian Journal of Animal Health*, 59(2-Spl), 75–88. <https://doi.org/10.36062/ijah.59.2SPL.2020.75-883>.
3. CHATTERJEE, T., **CHOWDHURY, N. R.**, MUKHERJEA, R., MAITY, A., & DAS, P. K. (2020). Estimation of faecal fat content of jungle cat (*Felis chaus*), fishing cat (*Prionailurus viverrinus*) and gray langur (*Semnopithecus* sp.), and its comparative variations with respect to their captive and wild habitat. *Indian Journal of Animal Health*, 59(2), 189–193. <https://doi.org/10.36062/ijah.59.2.2020.189-193>
4. **CHOWDHURY, N. R.**, HABIB, M., & HARIT, A. (2020). Techniques in quantifying hormones in biological fluids. *International Journal of Advanced Research*, 8(9), 830–836. <https://doi.org/10.21474/IJAR01/11730>
5. **CHOWDHURY, N. R.**, BATABYAL, S., & MONDAL, B. (2021). Critical review on management and alternative therapeutics to combat Covid-19. In SVBBI (Ed.), *Vth Annual Convention of Society of Veterinary Biochemists and Biotechnologists of India (SVBBI) and National Symposium on "Current Challenges for Animal Biochemists and Biotechnologists for Improving Animal Health and Production in Post COVID Scenario"* (p. 104). SVBBI.

## ❖ Special Attainments

- ✓ **ICAR Post Graduate Fellowship** – for securing All India 39<sup>th</sup> rank in AIEEA exam to pursue Masters of Veterinary Sciences degree courses.
- ✓ **Central Sector Scheme of Scholarship for College and University Students, Ministry of Education, Govt. of India** - for outstanding results in Boards Examinations.
- ✓ **Amul Vidyashree Award** - for outstanding performances in Boards (High School Graduate) Examinations.
- ✓ **The Telegraph In Schools Fellowship** for becoming winner of Nationwide IT Quiz Contest.
- ✓ **British Council** sponsored Spoken English Trainee.

## ❖ Referees

Prof. (Dr.) Subhasis Batabyal

***Professor***

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