

## Curriculum Vitae



**Name** : **Dipankar Chandra Roy**  
**Present Status** : **Senior Scientific Officer & PhD Student under Nagoya City University, Japan**  
**Mailing Address** : Biomedical and Toxicological Research Institute (BTRI)  
Bangladesh Council of Scientific and Industrial Research (BCSIR)  
Dr. Qudrat-I-Khuda Road, Dhanmondi, Dhaka-1205.  
**Sex** : Male  
**Nationality** : Bangladeshi

**Field of Specialization:** (i) Microbial textile dye treatment, (ii) DNA-based authentication/identification of animal- and plant-derived products, like food or feed products, toxins, etc., (iii) Gene expression study, (iv) Primary neuron isolation from the cortex of neonatal mouse pups and culture.

### **Job profile:**

**November 22, 2020 to Present**      **Senior Scientific Officer**  
Biomedical and Toxicological Research Institute (BTRI)  
Bangladesh Council of Scientific and Industrial Research (BCSIR)  
Dr. Qudrat-I-Khuda Road, Dhanmondi, Dhaka-1205.

**October 13, 2019 to November 21, 2020**      **Scientific Officer**  
Biomedical and Toxicological Research Institute (BTRI)  
Bangladesh Council of Scientific and Industrial Research (BCSIR)  
Dr. Qudrat-I-Khuda Road, Dhanmondi, Dhaka-1205.

**July 12, 2015 to October 12, 2019**      **Scientific Officer**  
Institute of Food Science and Technology (IFST)  
Bangladesh Council of Scientific and Industrial Research (BCSIR)  
Dr. Qudrat-I-Khuda Road, Dhanmondi, Dhaka-1205.

### **Academic Background:**

<b>Degree</b>	<b>Field of background</b>	<b>University</b>
<b>B.Sc. (Honors)</b>	Biotechnology and Genetic Engineering	Islamic University
<b>M.Sc.</b>	Biotechnology and Genetic Engineering	Islamic University
<b>PhD</b>	-	-

## List of Activities:

### (i) Publications:

- Roy, D.C.**, Adhikery, D., Abdurrahim, M., Hossain, M.M.K., Chowdhury, R.T., Lyzu, C. & Sarker, A.K. (2023). A simplex PCR-based approach to trace the pulp adulterant of sweet pumpkin in industrially processed mango juice items by targeting the chloroplast *ycf1* gene fragment. *Food and Humanity*, 1, 562–570. <https://doi.org/10.1016/j.foohum.2023.06.024>
- Abdurrahim, M., Haque, S.E.M., **Roy, D.C.**, Arefin, P., Ruchita, F.F., Sarkar, M.R. & Faroque, A.B.M. (2023). Iodine concentration in edible salt from production to retail level in Bangladeshi territory: A comparative study following standard regulations. *Journal of Food Composition and Analysis*, 120, 105334. <https://doi.org/10.1016/j.jfca.2023.105334>
- Sultana, N., Fukamachi, K., **Roy, D.C.**, Xu, J., Tsuda, H. & Suzui, M. (2023). mRNA expression levels of CCL4, IL6, and CXCL2 in multiwalled carbon nanotube induced lung tumors in rats. *Fundamental Toxicological Sciences*, 10(4), 137–141. <https://doi.org/10.2131/fts.10.137>
- Mohanta, L. C., Huque, A., Islam, D., **Roy, D. C.**, Hakim, M., Akhter, S., Lyzu, C., Lipy, E. P., & Nabi, M. R. (2022). Accumulation of heavy metals in Long-Evans rat through feeding fishes of Buriganga river and their histopathological evaluation. *Biological Trace Element Research*, 201, 3928–3940. <https://doi.org/10.1007/S12011-022-03477-Z>
- Roy, D. C.**, Abdurrahim, M., Roy, K., Afrin, N., Mohanta, L. C., & Sarker, A. K. (2022). Polymerase chain reaction-based snake origin tracing in commercial venom crystals by targeting the mitochondrial D-loop. *Toxicon*, 219, 106933. <https://doi.org/10.1016/j.toxicon.2022.106933>
- Roy, D. C.**, Akhter, S., Sarker, A. K., Hossain, M. M. K., Lyzu, C., Mohanta, L. C., Islam, D., & Khan, M. A. A. (2021). Tracing the pig and cattle origin in processed food and feed products targeting mitochondrial 12S rRNA gene. *Journal of Food Quality and Hazards Control*, 8(4), 152–161. <https://doi.org/10.18502/jfqhc.8.4.8256>
- Sarker, A. K., Rashid, M., **Roy, D. C.**, Musarrat, M., & Bithi, U. H. (2021). Ginger (*Zingiber officinale*) powder from low temperature drying technique. *Bangladesh Journal of Scientific and Industrial Research*, 56(2), 133–140. <https://doi.org/10.3329/bjsir.v56i2.54320>
- Lipy, E. P., Hakim, M., Mohanta, L. C., Islam, D., Lyzu, C., **Roy, D. C.**, Jahan, I., Akhter, S., Raknuzzaman, M., & Abu Sayed, M. (2021). Assessment of heavy metal concentration in water, sediment and common fish species of Dhaleshwari river in Bangladesh and their health implications. *Biological Trace Element Research*, 199(11), 4295–4307. <https://doi.org/10.1007/s12011-020-02552-7>
- Islam, D., Banerjee Shanta, M., Akhter, S., Lyzu, C., Hakim, M., Islam, M. R., Mohanta, L. C., Lipy, E. P., & **Roy, D. C.** (2020). Cardioprotective effect of garlic extract in isoproterenol-induced myocardial infarction in a rat model: assessment of pro-apoptotic caspase-3 gene expression. *Clinical Phytoscience*, 6(67), 1–9. <https://doi.org/10.1186/s40816-020-00199-4>
- Roy, D. C.**, Biswas, S. K., Sheam, M. M., Hasan, M. R., Saha, A. K., Roy, A. K., Haque, M. E., Rahman, M. M., & Tang, S. S. (2020). Bioremediation of malachite green dye by two bacterial strains isolated from textile effluents. *Current Research in Microbial Sciences*, 1, 37–43. <https://doi.org/10.1016/j.crmicr.2020.06.001>
- Roy, D. C.**, Biswas, S. K., Saha, A. K., Sikdar, B., Rahman, M., Roy, A. K., Prodhan, Z. H., & Tang, S. S. (2018). Biodegradation of Crystal Violet dye by bacteria isolated from textile industry effluents. *PeerJ*, 6, e5015. <https://doi.org/10.7717/peerj.5015>

(ii) Processes : -

(iii) Others : -

**Id links** : Researchgate: <https://www.researchgate.net/profile/Dipankar-Roy-6>  
Google Scholar: <https://scholar.google.com/citations?user=AftO5xMAAAAJ&hl=en>  
ORCID: <https://orcid.org/0000-0003-0299-5710>