**Professor Dr. Md. Mafizur Rahman**

Post-doctoral Senior Researcher, Kangwon National University, Insect Molecular Toxicology Lab. Applied Biology., Agriculture and Life Science Research Institute, Kangwon National University, Chuncheon 24341, South Korea
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Researchgate: https://www.researchgate.net/profile/Md-Mafizur-Rahman-2
Google scholar: https://scholar.google.com/citations?user=6VIOlwoAAAAJ&hl=ko

## EDUCATION

| Degree / Exam. | Board/ University | Dept/ Subject | GPA/Class | Year |
|---|---|---|---|---|
| Postdoc | Kangwon National University, South Korea | Insect Molecular Toxicology Lab. Applied Biology. College of Agriculture and Life Science | | 2021-2023 |
| PhD. | Kangwon National University, South Korea | Forestry and Environmental system (major: Molecular Microbiology) | 4.38/4.50 | 2014-2018 |
| M. Sc. | Islamic University, Kushtia, Bangladesh | Biotechnology & Genetic Engineering (major: Microbiology) | First Class | 2003-2004 |
| B. Sc. (Honors) | Islamic University, Kushtia, Bangladesh | Biotechnology & Genetic Engineering | First Class | 1999-2003 |

## RESEARCH INTEREST

I am broadly interested in a) Microbiology (pathogenic virus and bacteria) b) Molecular Biology c) Safety, and sanitation d) Prevalence of common zoonotic bacteria and viral pathogens, including Nipah, Dengue, *Salmonella*, *Escherichia coli*, and *Bacillus*.
Bioinformatics: Next-generation sequencing (NGS) data analysis, metagenome, transcriptome, RNA-seq data analysis, and whole genome sequence (WGS) analysis. Bioinformatic software, including Geneious, MUMer, MEGA, MrBayes and so on.

**Research experience:**

Besides my PhD research, I have the experience to work different potential projects as an associate researcher at Kangwon National University, South Korea. During postdoctoral period (2021-2023), I am involved in the project:
"*Establishment of digital prescription system for controlling major sucking insect pests in rice,* PJ015619". As Bangladeshi collaborator, I have experience to research handling, Title: *ASEAN virome analysis, database construction, and infection mechanism and spread model research for preemptive response to domestic invasion*.

## PROFESSIONAL EXPERIENCES

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|---|---|
| **2022/02/01-2023/12/31 - Post-Doctoral Fellow** | Insect Molecular Toxicology Lab. Applied Biology. College of Agriculture and Life Science, Kangwon National University, Chuncheon 24341, SouthKorea (https://www.kangwon.ac.kr/english/indexnt) |
| **2021/08 -2022/01.28. Post-Doctoral Fellow** | Genomic Laboratory, Dept. of Forestry and Environmental system, Forest College, Kangwon National University, Chuncheon 24341, South Korea. (https://www.kangwon.ac.kr/english/indexnt) |

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|---|---|
| **2018/03 - 2019/07/30. Post-Doctoral Fellow** | Genomic Laboratory, Dept. of Forestry and Environmental system, Forest College, Kangwon National University, Chuncheon 24341, South Korea. (https://www.kangwon.ac.kr/english/indexnt) |
| **2022/04/18- present Professor** | Islamic University, Kushtia, Bangladesh, https://www.iu.ac.bd |
| **2018/04 – 2022/04/18: Associate Professor** | Islamic University, Kushtia, Bangladesh, https://www.iu.ac.bd |
| **2013/04 - 2018/03/30 Assistant Professor** | Islamic University, Kushtia, Bangladesh, https://www.iu.ac.bd |
| **2010/04 -2013/03/17. Lecturer** | Islamic University, Kushtia, Bangladesh, https://www.iu.ac.bd |
| **2008/01-2010/03/31 Senior Biology Lecturer** | Salvation International School and college (SISC; A & O level), Dhanmondi, Dhaka, Bangladesh |

## CONFERENCES

1. ***Md Mafizur Rahman**, Ridita Bintee Alam, Md Mehedi Hasan, Md. Fahim Hossain, Md Mizanur Rahman (2025). Comparative Genomics and Resistome Dynamics of Salmonella and Escherichia coli from Human, Animal, and Environmental Sources. *International Conference on Life Sciences (ICLS 2025)*.
2. Md Mehedi Hasan, Md Sakhawat Hossain, Md. Fahim Hossain, Md. Mafizur Rahman. (2025). Comparative Genome Study of Multidrug-resistant *Serratia marcescens* strain BTGE-M-3 Isolated from a Diarrheal Patient Reveals Antibiotic Resistance Profile. 6th International Conference of Biotechnology on Health and Agriculture (ICBHA)-2025. September 26-27, 2025.
3. Md Mehedi Hasan, Md Sakhawat Hossain, Md. Fahim Hossain, **Md. Mafizur Rahman***. (2025). PD1-73: Clinical and molecular detection of LSDV in cattle across selected districts in Bangladesh. 120-121, 2025.
4. Md Fahim Hosaain, Md Mehedi Hasan, Md Sakhawat Hossain, Md. Fahim Hossain, ***Md. Mafizur Rahman** (2025). Bacteriological quality and genomic characterization of isolated Escherichia coli from water sources in Islamic University campus, Bangladesh. 210, 2025.
5. Rahman, M. M., Nam, H. Y., Heckel, D. G., & Kim, J. (2022). Chromosomal level of the genome sequencing and genome wide discovery lncRNAs involved in insecticide resistance in Helicoverpa armigera. *Korean Society of Applied Entomology conference proceedings* 29-29.
6. Jeong, **M., Mafizur,** R. M., & Kim, J. (2022). Morphology and Molecular based Phylogeny of Korean Chrysis ignita group (Hymenoptera: Chrysididae). *Korean Society of Applied Entomology conference proceedings*, 61-61.
7. Han, C., Rahman, M. M., Shin, J., & Kim, J. (2023). What is the main player of the diamide resistance mechanism in the beet armyworm, Spodoptera exigua (Lepidoptera: Noctuidae)?. Applied Entomology conference proceedings, 41-41.
8. Jeon, J., **Rahman, M. M**., Han, C., Shin, J., Sa, K. J., & Kim, J. (2023). Spodoptera frugiperda (Lepidoptera: Noctuidae) life table comparisons and gut microbiome analysis reared on corn varieties. *Insects*, *14*(4), 358.
9. Rahman, M. M., Shin, J., Jeon, J., Han, C., Kim, J., Heckel, D. G., & Omoto, C. (2023). Genome-wide exploration of metabolic based pyrethroid resistance mechanism in Helicoverpa armigera (Lepidoptera: Noctuidae). *Applied Entomology conference proceedings*, 30-30.
10. Shin, J., **Rahman, M. M**., Ahn, S. J., Han, C., & Kim, J. (2023). Revealing the biological insights of the specialist herbivore, Helicoverpa assulta, through comparative genomics and chromosome-level genome assembly. *Korean Society of Applied Entomology conference proceedings,*29-29

## PUBLICATIONS: 2018-2026 (42 published articles, Total Impact Factor: >65)

**(**Published Article **<u>*as corresponding Author; # as first author and co-first author; 2018 – 2026, SCI/ SCIE, Scopus</u>).**

1. Mst. Shanzeda Khatun, Anzana Parvin, <u>*</u>**Md. Mafizur Rahman. (2026)** Plant-Derived therapeutics for COVID-19:

Clinical effectiveness and research evolution through bibliometric mapping. Journal of herbal medicine. (**SCI indexed, IF=2.1, Q2, Elsevier**).

2. Han, C. **Md-Mafizur Rahman**., Kim, J. Ralf Nauen **(2024).** Integrated diagnostic approach using qPCR, ddPCR, and LAMP-based molecular tools for two leafhopper species identification (*Nephotettix cincticeps* and *N. virescens*). *Journal of Applied Entomology*. (**SCI indexed, IF=2.2, Q2, Wiley-Blackwell**).
3. Han, C. **Md-Mafizur Rahman**., Kim, J. Ralf Nauen **(2024).** Genome-wide analysis of detoxification genes conferring diamide insecticide resistance in *Spodoptera exigua* identifies CYP9A40. *Chemosphere.* (**SCI indexed, IF=8.1, Q1, Elsevier**).
4. Rahima Tanbin Tama, Md. Sakhawat Hossain, **Md-Mafizur Rahman (2024).** Harnessing the Power of Natural Products Against Bacterial Urinary Tract Infections: A Perspective Review for Cultivating Solutions. Health Science Review, (**SCIE indexed, Elsevier**).
5. Munjia MA, Moni RJR, Tama RT, ***Md-Mafizur Rahman**. **(2024).** Investigating the presence of multidrug-resistant *Escherichia coli* in raw mutton from open marketplaces. JAFE, V5, No.3. P1-6. (**Corresponding author, indexed**).
6. Kim, J., **Md-Mafizur Rahman**., Han, C. **(2024).** Genome-wide exploration of metabolic-based pyrethroid resistance mechanism in *Helicoverpa armigera. Journal of Pest Science*. (**SCI indexed, IF=4.3, Q1, Springer**).
7. Arya R, Haque AKMA, Shakya H, Billah MM, Parvin A, **Md-Mafizur Rahman**., Sakib KM, Faruquee HM, Kumar V, Kim JJ. **(2024).** Parkinson's Disease: Biomarkers for Diagnosis and Disease Progression. Int J Mol Sci. 2024 Nov 18;25(22):12379. (**SCIE indexed, IF=4.9, Q1, MDPI**).
8. Mst Tania Khatun, Humayan Kabir Rana, ***Md-Mafizur Rahman.,** Md Habibur Rahman. (**2024**). Bioinformatics and systems biology approaches to identify molecular targets and pathways shared between Schizophrenia and bipolar disorder. *Informatics in Medicine Unlocked.*V. 49, 2024, 101556. (**SCIE indexed, IF=4.21, Q2, Elsevier**).
9. Fahim, W Hassan, A Afsin, MM Rahman, MT Rahman, SJ Lim, Y Oh, ***Rahman, Md Mafizur. (2024)** Molecular identification of fruit bats, natural host of Nipah virus in Bangladesh, based on DNA barcode. Journal of Ecology and Environment. 2024, 48:17. (**Scopus**, **IF=2.4, Q2, BMC**)
10. Md. Shohorab Hossain, Md. Abdullah Al Mamun, **Md-Mafizur Rahman (2024).** Comparative Genome Study of Multidrug-resistant Serratia 2 marcescens strain IU-BTGE-M-3 Isolated from a Diarrheal Patient Running title: Genome Sequence of a Multidrug-resistant *Serratia marcescens*. bioRxiv 2024.10.18.619060; doi: https://doi.org/10.1101/2024.10.18.619060.
11. Mst. Shanzeda Khatun, Md. Chayan Ali, Raju Dash, ***M Mafizur Rahman** (2024). Proteostasis Associated Variants in HSPB5 Destabilize the αB-crystallin Domain. Computational Biology and Chemistry. doi: https://doi.org/10.1101/2024.11.12.623266.
12. **Rahman, Md Mafizur**; Omoto, C.; Kim, J. **(2024)**. Genome-Wide Exploration of Long Non-Coding RNAs of *Helicoverpa armigera* in Response to Pyrethroid Insecticide Resistance. Insects 2024, 15, 146. (**SCIE indexed, IF=3.141, Q1**).
13. **Rahman, Md Mafizur**, Sangjin, L., & Chul, P. Y. (**2024**). Prevalence of *Salmonella* spp. and *Escherichia coli* in the feces of free-roaming wildlife throughout South Korea. *PloS one*, 19(2), e0281006. (**SCI, IF=3.7, Q1, Public Library of Science**)
14. Shin, J.; **Rahman, Md Mafizur**.; Kim, J.; Marcombe, S.; Jung, J. (**2023).** Genetic Diversity of Dengue Vector Aedes albopictus Collected from South Korea, Japan, and Laos. *Insects* 2023, 14, 297. (**SCIE indexed, IF=3.141, Q1**).
15. Jeon, J.; **[#]Rahman, Md Mafizur**.; Han, C.; Shin, J.; Sa, K.J.; Kim, (**2023).** J. *Spodoptera frugiperda* (Lepidoptera: Noctuidae) Life Table Comparisons and Gut Microbiome Analysis Reared on Corn Varieties. *Insects*, *14*, 358. (**SCIE indexed, IF=3.141, Q1, MDPI, First author, equal contribution**).
16. Juil Kim, **[#]Rahman, Md Mafizur,** Ramasamy, S., Kwon, M. **(2023).** Genome-wide exploration of metabolic-based pyrethroid resistance mechanism in *Helicoverpa armigera.* bioRxiv 2023.12.18.572109. (*Journal of Pest Science*, **SCIE index, IF=4.8, Q1, Springer)**
17. **Rahman, Md Mafizur**, Nam H, Choi N, Kim J. Development of Molecular-Based Species Identification and Optimization of Reaction Conditions for Molecular Diagnosis of Three Major Asian Planthoppers (Hemiptera: Delphacidae). Insects. 2023 Jan 25;14(2):124. (**SCIE indexed, IF=3.141, Q1**)
18. Juil Kim, **[#]Md-Mafizur Rahman**, A-Young Kim, Srinivasan Ramasamy, Min Kwon, Yonggyun Kim. **(2023).** Exaptation of I4760M mutation in ryanodine receptor of *Spodoptera exigua* (Lepidoptera: Noctuidae): lessons from museum and field samples. *Pesticide Biochemistry and Physiology*. 2023, September, 195, 105579. (**SCI indexed, IF =4.96, Q1, First author, equal contribution).**
19. Kim, J., **Rahman, Md Mafizur.;** Kim, A. Y., Ramasamy, S., Kwon, M., & Kim, Y. (**2023**). Genome, host genome integration, and gene expression in *Diadegma fenestrale* ichnovirus from the perspective of coevolutionary hosts. *Frontiers in microbiology*, *14*, 1035669. (**SCI indexed, IF=6.064, Q1, Frontiers**).
20. Ali Hossain, M., Asa, T. A., Rabiul Auwul, M., Aktaruzzaman, **Rahman, Md., Mafizur**, M., Rahman, M. Z., & Moni, M. A. (2023). The pathogenetic influence of smoking on SARS-CoV-2 infection: Integrative transcriptome and regulomics analysis of lung epithelial cells. *Computers in biology and medicine*, 159, 106885. (SCI indexed, IF=7.0, **Q1**, Elsevier).

21. **Rahman, Md Mafizur,** Lim, S. J., & Park, Y. C. (**2022**). Molecular Identification of *Bacillus* Isolated from Korean Water Deer (*Hydropotes inermis* argyropus) and Striped Field Mouse (*Apodemus agrarius*) Feces by Using an SNP-Based 16S Ribosomal Marker. *Animals*. 12(8), 979. (**SCIE indexed, IF=2.7, Q1, MDPI**).
22. **Rahman, Md Mafizur**, Lim, S. J., & Park, Y. C. (2022). Genome-Wide Searching Single Nucleotide-Polymorphisms (SNPs) and SNPs-Targeting a Multiplex Primer for Identification of Common Salmonella Serotypes. **Pathogens** (Basel, Switzerland), 11(10), 1075. (**SCIE indexed, IF=3.3, Q2, MDPI**).
23. **Rahman, Md Mafizur,** Lim, S. J., & Park, Y. C. (**2022**). Development of Single Nucleotide Polymorphism (SNP)-Based Triplex PCR Marker for Serotype-specific *Escherichia coli* Detection. *Pathogens*,11(2), 115; (**SCIE indexed, IF=4.53, Q2**).
24. Ahmed, S., Ali, M. C., Ruma, R. A., Mahmud, S., Paul, G. K., Saleh, M. A., Alshahrani, M. M., Obaidullah, A. J., Biswas, S. K., Rahman, M. M., **Rahman, Md Mafizur*,** & Islam, M. R. (**2022**) Molecular Docking and Dynamics Simulation of Natural Compounds from Betel Leaves (*Piper betle* L.) for Investigating the Potential Inhibition of Alpha- Amylase and Alpha-Glucosidase of Type 2 Diabetes. *Molecules* 27,14 4526. (**SCI indexed, IF=4.97, Q1**).
25. Rashni Agarwala, Israt Jahan Maria, Promi Dewan, **Rahman, Md Mafizur,** Zubaer Hosen, Md. Adnan. (**2022**). Exploring the impact of daily food habit and modification of lifestyle for boosting immunity against COVID-19. *Heliyon*, 2022, 8 (2), e08983. (**SCI indexed, IF=3.4, Q1**).
26. Ali, Md Chayan, Khatun, Mst Shanzeda, Jahan, **Rahman, Md Mafizur,** Mohammad Abu Hena Mostofa Jamal (**2022**). *Syzygium aromaticum* as a possible source of SARS-CoV-2 main protease inhibitors: Evidence from a computational investigation. *J Adv Biotechnol Exp Ther*. 2022; 5(1): 218-228. (**SCOPUS indexed, IF=1.77, Q3**).
27. Ali, Md Chayan, Khatun, Mst Shanzeda, Jahan, Sultana Israt, Das, Raju, Munni, Yeasmin Akter, ***Rahman, Md Mafizur,** Dash, Raju. (**2021**). *In silico* design of epitope-based peptide vaccine against non-typhoidal *Salmonella* through immunoinformatic approaches. *J. Biomolecular Struc. Dynamics*. 1-19. (**SCI indexed, IF=3.310, Q2, Taylor and Francis**).
28. #**Md Mafizur Rahman**, Md Azad, Obyedul Kalam, Jasim Uddain, Md Adnan, Md Ali, SK Al- Mujahidy, Md Roni, Zohurul Kadir, Mohammed Saifur Rahman, Md Islam, Ki Young Choi, Most Tahera Naznin (**2021**). Microbial Quality Assessment and Efficacy of Low-Cost Disinfectants on Fresh Fruits and Vegetables Collected from Urban Areas of Dhaka, Bangladesh. *Foods* 10(6):1325. (**SCIE indexed, IF=3.11, Q1, MDPI**).
29. **#Md Mafizur Rahman**, Sanjin Lim, Heuk Kim, Jay Cho, and Yung Park (**2020**). Prevalence data of diarrheagenic *Escherichia coli* in the fecal pellets of wild rodents using culture methods and PCR assay" *Data in Brief.* 33, December 2020, 106439. (**Scopus**, **IF=1.133, Q3, Elsevier**).
30. Md. Chayan Ali1, Anjumana Jannati Nur, Mst. Shanzeda Khatun, Raju Dash, **Md Mafizur Rahman***, Mohammad Minnatul Karim. (**2020**). Identification of potential SARS-CoV-2 main protease inhibitors from *Ficus Carica* Latex: An *in-silico* approach. *J. Adv Biotechnol. Exp. Ther.* 2020; 3(4): 57-67 (**Scopus Indexing, Q3**)
31. #**M. Mafizur Rahman,** Kwang bae Yoon & Yung Chul Park (**2019**). Structural characteristics of a mitochondrial control region from *Myotis* bat (Vespertilionidae) mitogenomes based on sequence datasets. *Data in Brief*. 24, June 2019, 103830. (**Scopus**, **IF=1.133, Q3, Elsevier**).
32. Md. Rezanur Rahman, Tania Islam, Beste Turanli, Toyfiquz Zaman, Hossain Md. Faruquee, **M. Mafizur Rahman**, Md. Nurul Haque Mollah, Kazim Yalcin Arga, Mohammad Ali Moni, and Esra Gov (**2018**). Network-Based Approach to Identify Molecular Signatures and Therapeutic Agents in Alzheimer's disease. *Computational Biology and Chemistry.* 78: 431-439. (**SCI Indexing, IF=1.85, Q2, Elsevier**).
33. #**M. Mafizur Rahman**, Yoon K B, Lim S J, Jeon M G, Kim HJ, Kim HY, Park YC. (**2018**). Molecular detection by analysis of the 16S rRNA gene of fecal coliform bacteria from the two Korean *Apodemus* species (*Apodemus agrarius* and *A. peninsulae*). *Genet Mol Res*. 16 (2). (**Scopus Indexing, IF=0.78, Q4**).

**(Accepted/Under Review/Submitted/preparation)**

1. Maliha Paul, Md. Ashikur Rahman, Syed Rahman, **M. Mafizur Rahman*** (2025). Nanotechnology in Livestock and Poultry Industry: A Farm to Fork Perspective. Nano Today. (Scopus, SCI; IF=10.9 (**Review**)
2. Mst. Shanzeda Khatuna, Md. Ashikur Rahman, **Md Mafizur Rahman***(2025). Plant-Derived therapeutics for COVID-19: Clinical effectiveness and research evolution through bibliometric mapping. Journal of Herbal Medicine. (**Review**). SCIE; IF=1.9
1. Ariful Haque, Ridita Binte Alam, **M. Mafizur Rahman*** (2025). Dengue prevalence and host-pathogen dynamics in selected divisions in Bangladesh. (**In preparation**)
2. Walid Hasan, Md. Chayan Ali, **M. Mafizur Rahman*** (2024). Complete genome sequence of *Escherichia coli* strain IUBTGE_WHBC01. (**In preparation**)
3. Walid Hasan, Chayan Ali, **M. Mafizur Rahman*** (2024). Whole-genome sequence characterization of multidrug-resistant Diarrhoegenic pathogenic *Escherichia coli* isolated from human, animal fecal, and environmental sources in Kushtia, Bangladesh. (**Ongoin**)

4. Md Abdul kadir, M Chayan Ali1, Walid Hassan, **M. Mafizur Rahman*** (2024). Molecular Characterization and Antibiogram Profiling of the Isolated Food-borne Pathogenic Bacteria on Fresh-cut Salad Vegetables. *J. Sci.Technol*. (**Accepted**)
5. Md. Chayan Ali, Anjumana Jannati Nur, ***Md Mafizur Rahman** (2024). Antioxidant Rich Phytochemicals: Preclinical to Clinical Trials of Phytochemicals: A Potential Alternative and Complementary Treatment Option Against COVID-19. Phytomedicine Plus. Manuscript ID: PHYPLU-D-21-00430. (Scopus, SCI; IF=5.34 (**In Review**).
6. Jannatul Ferdous, Palash Bose, Abdullah al Mamun, Fahim hossain, Walid Hasan *M. Mafizur Rahman (2024). Molecular identification and multidrug resistance profiling of isolated common food-borne pathogenic bacteria from poultry fecal (**In preparation**).
7. S.M.J. Al-Mujahidy, Md. Chayan Ali, Bishnu Dev Das, Niroj Paudel, Md Obyedul Kalam Azad, **M Mafizur Rahman*** (2024). Cultural and Molecular Detection of *Staphylococcus hominis* Isolated from Traditional Yogurts Sold in Retail Sweet-shop in Dhaka, Bangladesh. Microbiology (**In preparation**).
8. Fahim hossain, Walid Hasan, Chayan Ali, ***M. Mafizur Rahman** (2022). Phylogenetic position of the based on complete mitochondrial genome sequences of *Megaderma lyra*. (**In preparation**).

## PROJECT INVESTIGATOR ROLE

**Completed Research Projects Grants**: (role as Project Investigator, PI)

| Sl. | Titles | Year | Duration | Cost (thousand, BDT) | Source of Funding |
|---|---|---|---|---|---|
| **i.** | Strengthening Food Safety in Bangladesh Using Next Generation Sequencing and Culture Based Methods to Characterize and Monitor Antibiotic-Resistant Bacteria and their Resistance Genes Isolated from Livestock Derived Foods | **2024-25** | **1y** | **1250** | Food Safety Authority, Bangladesh |
| **ii.** | Microbial Community in Nipah-virus Carrying Fruit bats (*Pteropus* spp*)* Guano with Culture-independent and Culture-dependent methods." | **2023-24** | **1y** | **300** | University Grant Commission (UGC) |
| **iii.** | ASEAN virome analysis, database construction, and infection mechanism and spread model research for preemptive response to domestic invasion. | 2021-23 | 2ys | **2200** | South Korea (collaborative project) |
| **iv.** | Genomic characterization and antibiotic resistance profiling of food-borne pathogenic *Salmonella* isolated from fresh-cut fruits and vegetables. | 2021-22 | 1y | **150** | Islamic University provided by University Grant Commission (UGC) |
| **v.** | Molecular characterization and antibiotic resistance profiles of isolated common food- borne pathogenic bacteria from fresh-cut fruits and vegetables in Bangladesh | 2021-22 | 1y | **250** | MINISTRY OF SCIENCE AND TECHNOLOGY, Bangladesh. |
| **vi.** | Genomic Characterization and Multidrug Resistant Diarrheagenic *Escherichia coli* Isolated from Bovine Feces and Environmental Sources in Bangladesh | 200-2021 | 1y | **200** | Islamic University provided by University Grant Commission (UGC) |
| **vii.** | Molecular phylogeny of Nipah-virus carrying bats using mitochondrial DNA in Bangladesh | 2019-20 | 1y | **300** | University Grant Commission (UGC) |

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| **viii.** | *In silico* analysis of outer membrane protein C (Omp C) of *Salmonella* Typhimurium to develop a target vaccine | 2018-19 | 1y | **120** | Islamic University provided by University Grant Commission (UGC) |
| **ix.** | Explore the chromium detection mechanism of cultivated rice varieties in Bangladesh. | 2018-19 | 1y | **250** | MINISTRY OF SCIENCE AND TECHNOLOGY, Bangladesh. |
| | **Students Project as a supervisor** | | | | |
| **x.** | Chemical Profiling and Identification of Drug Candidates from Mango Ginger (Curcuma amada) Targeting Acetylcholinesterase to Use as Therapeutic Agents in Neurodegenerative Diseases (Parkinson Disease, Alzheimer's Disease) | 2020-21 | 1y | 70 | University Grant Commission (UGC) |
| **xi.** | Isolation, Identification and Molecular Characterization of Heavy Metal Stress Tolerant Bacteria from Different Contaminated Sources | 2020-21 | 1y | **60** | NST Fellowship |
| **xii.** | Isolation, molecular identification and antibiogram profile of pathogenic bacteria from fresh fruits and vegetables with their controlling measures | 1999-20 | 1y | **60** | NST Fellowship |
| **xiii.** | Molecular Characterization of Microbial Community through Metagenomic Approach from Bat Fecal | 2019-20 | 1y | **60** | NST Fellowship |

## PATENTS

Yung Chul Park, **Md Mafizur Rahman**, S.J. Lim. 2018. Development of multiplex PCR kit and detection of pathogenic *Escherichia coli* (*E. coli* O157:H7). Kangwon National University, Korea. Patent application No HP-17-076.

Yung Chul Park, **Md Mafizur Rahman**, S.J. Lim. 2017. Development of multiplex SNP-based PCR kit and detection of *Salmonella* spp. Kangwon National University, Korea. Patent No: 10-182857

## AWARD RECEIVED

- **University Rank Holder in M.Sc.** (2nd in Position), Biotechnology and Genetic Engineering, Islamic University, Bangladesh.
- **Best graduate student oral Presentation Award** from "International Conference on "New
- Multidisciplinary Perspective of forest and Environmental Resources-2016" organized by Institute of Forest Science, Kangwon National University.
- **BEST-KNU Scholarship Award** September 2014 to February 2018 from Kangwon National University, South Korea.
- **Woojung Foundation Scholarship** from Feb, 2015 to June, 2017, South Korea
- **Certificate:** Korean-Level 2 and KIIP level 1
- **Outstanding cooking performance award**: The 2019 Gangwon Namul-Bap Cooking Contest'. Organized by Gangwon Do Federation of Korea Rural Life Improvement Association

## EDITORIAL MEMBER

March 2020 - Present: Editorial board member of Journal of ecology and environment. BMC (part of Springer nature, Scopus), South Korea. (https://jecoenv.biomedcentral.com/)

December 2020 - Present: Associate editors of Journal of Agricultural Food and Environment (JAFE). SAFE society, South

Korea. (http://journal.safebd.org/index.php/jafe)
March 2018- Present: Editors in JURNAL SYLVA LESTARI (JSL) Forestry Journal. Indonesia.
https://sylvalestari.fp.unila.ac.id/index.php/JHT

## REFERENCES

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**Kim Juil (Postdoc professor)**
Insect Molecular Toxicology Lab. Applied Biology., Agriculture and Life Science Research Institute, Kangwon National University, Chuncheon 24341, South Korea
E-mail: foeweek@kangwon.ac.kr

I declare that the information I have given in this CV is true and correct and I have personally signed this.

(Md Mafizur Rahman)