



Dhaka University

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Basic Information

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|----------------------|------------------------------|--------------------|----------------------------------|
| Email | : rafiul26mbdu@gmail.com | Faculty | : Faculty of Biological Sciences |
| Employee Name | : Md. Rafiul Islam Ranga | | |
| Department | : Department of Microbiology | Designation | : Lecturer |

Education Information

| Degree Name | Group/Major Subject | Board/Institute | Country | Passing Year | Result |
|-------------|---------------------|---------------------|------------|--------------|------------------|
| Masters | Microbiology | University of Dhaka | Bangladesh | 2018 | 3.95 out of 4.00 |
| Bachelor | Microbiology | University of Dhaka | Bangladesh | 2017 | 3.95 out of 4.00 |

Award Information

| Award Type | Award Title | Year | Country | Description |
|------------|--|------|------------|--|
| Local | Merit award | 2018 | Bangladesh | Merit Award offered the Department of Microbiology, University of Dhaka, Dhaka for securing highest CGPA in M.S. (Thesis) examination in the year 2018 |
| Local | Dean's Award | 2018 | Bangladesh | Dean's Award in recognition of outstanding result in Faculty of Biological Sciences, University of Dhaka, Bangladesh |
| National | National Science and Technology (NST) Fellowship | 2018 | Bangladesh | NST Fellowship offered by the Ministry of Science and Technology, Government of the People's Republic of Bangladesh for conducting thesis works in Masters level |
| Local | Merit award | 2017 | Bangladesh | Merit Award from the Department of Microbiology, University of Dhaka, Dhaka for securing 2nd highest CGPA in B.S. (Hon's) examination in the year 2017 |
| Local | Education Board Scholarship | 2014 | Bangladesh | Education Board Scholarship for outstanding results in Higher Secondary School Certificate (HSC-12 Years of Education) Examinations |
| Local | Education Board Scholarship | 2011 | Bangladesh | Education Board Scholarship for outstanding results in Secondary School Certificate (SSC-10 Years of Education) Examinations |
| Local | Primary Scholarship | 2006 | Bangladesh | Primary Scholarship for outstanding result in Primary School Completion Examination (5 Years of Education) |

Project/Research Supervision

| Level of Study | Title | Supervision | Co-Supervision | Name of Student | Area of Research | Current Completion |
|--|-------|-------------|----------------|-----------------|------------------|--------------------|
| No project/research supervision is found | | | | | | |

Research Interest

| Subject | Description |
|----------------|--|
| Bioinformatics | Genomics, transcriptomics and proteomics |
| Immunology | Immune response mechanisms, hyperimmune reaction, vaccine against rapidly mutating viruses |
| Virology | Emerging RNA and DNA viruses, virus-host interaction, molecular pathogenesis of viruses |

Project/Research Work

| Subject | Project Name | Source of Fund | Fund Amount | From Date | To Date | Collaboration |
|-----------------------------------|--------------|----------------|-------------|-----------|---------|---------------|
| No project/research work is found | | | | | | |

Invited Talk

| SL | Invited Talk |
|--------------------------|--------------|
| No invited Talk is found | |

Collaboration & Membership

| Collaboration & Membership Name | Type | Membership Year | Membership Expire Year |
|---------------------------------------|-------------|-----------------|------------------------|
| Bangladesh Society of Microbiologists | Life Member | 2020 | Live Time |

Experience

| Title | Organization | Location | From Date | To Date | Description |
|--------------------|---|------------|------------|-------------------|---|
| Lecturer | Department of Microbiology, University of Dhaka | Bangladesh | 03-01-2021 | Currently Working | Teaching and Research |
| Research officer | Bangladesh Food Safety Authority | Bangladesh | 09-08-2020 | 03-01-2021 | Research on food safety in Bangladesh |
| Research Assistant | Microbial Genetics and Bioinformatics Laboratory, Department of Microbiology, University of Dhaka | Bangladesh | 01-03-2019 | 31-07-2020 | Conducting research works, preparing manuscripts and to assist and train up the fellow labmates |

Publication

| Journal Article | |
|-----------------|--|
| 1 | <u>M. Rafiul Islam</u> , M. Shaminur Rahman, Md. Al Amin, A. S. M. Rubayet UI Alam, Mohammad Anwar Siddique, Munawar Sultana and M. Anwar Hossain : Evidence of combined effect of amino acid substitutions within G-H and B-C loops of VP1 conferring serological heterogeneity in foot-and-mouth disease virus serotype A , Transboundary and Emerging Diseases (impact factor:4.188) , 2020 . |
| 2 | Md. Al Amin, M. Rahmat Ali, <u>M. Rafiul Islam</u> , A.S.M. Rubayet UI Alam, Dipok Kumer Shill, M. Shaminur Rahman, Mohammad Anwar Siddique, Munawar Sultana and M. Anwar Hossain : Development and serology based efficacy assessment of a trivalent foot-and-mouth disease vaccine , Vaccine (impact factor:3.143) , vol.38 , no.32 , pp.4970-4978 , 2020 . |
| 3 | M. Nazmul Hoque,, Arif Istiaq, M. Shaminur Rahman, <u>M. Rafiul Islam</u> , Azraf Anwar, A.M.A.M. Zonaed Siddiki, Munawar Sultana, Keith A. Crandall and M. Anwar Hossain : Microbiome dynamics and genomic determinants of bovine mastitis , Genomics (impact factor:6.205) , vol.12 , no.6 , pp.5188-5203 , 2020 . |
| 4 | M. Shaminur Rahman, M. Nazmul Hoque, <u>M. Rafiul Islam</u> , Salma Akter, A. S. M. Rubayet UI Alam, Mohammad Anwar Siddique, Otun Saha, Md. Mizanur Rahaman, Munawar Sultana, Keith A. Crandall and M. Anwar Hossain : Epitope-based chimeric peptide vaccine design against S, M and E proteins of SARS-CoV-2, the etiologic agent of COVID-19 pandemic: an in silico approach , PeerJ (impact factor:2.38) , vol.8 , pp.e9572 , 2020 . |
| 5 | <u>M. Rafiul Islam</u> , M. Nazmul Hoque, M. Shaminur Rahman, A. S. M. Rubayet UI Alam, Masuda Akther, Akter Puspo, Salma Akter, Munawar Sultana, Keith A. Crandall and M. Anwar Hossain : Genome-wide analysis of SARS-CoV-2 virus strains circulating worldwide implicates heterogeneity , Scientific reports (impact factor:4.576) , vol.10 , no.1 , pp.1-9 , 2020 . |
| 6 | Mohammed Shaminur Rahman, <u>Mohammed Rafiul Islam</u> , Mohammed Nazmul Hoque, Abu Sayed Mohammad Rubayet UI Alam, Masuda Akther, Joynob Akter Puspo, Salma Akter, Azraf Anwar, Munawar Sultana and Mohammed Anwar Hossain : Comprehensive annotations of the mutational spectra of SARS-CoV-2 spike protein: a fast and accurate pipeline , Transboundary and emerging diseases (impact factor:4.188) , 2020 . |
| 7 | Rahman, M. Shaminur, <u>M. Rafiul Islam</u> , ASM Rubayet UI Alam, Israt Islam, M. Nazmul Hoque, Salma Akter, Md Mizanur Rahaman, Munawar Sultana and M. Anwar Hossain : Evolutionary dynamics of SARS-CoV-2 nucleocapsid protein and its consequences , Journal of medical virology (impact factor:2.021) , 2020 . |
| 8 | Rahman, M. Shaminur, M. Nazmul Hoque, <u>M. Rafiul Islam</u> , Israt Islam, Israt Dilruba Mishu, Md Mizanur Rahaman, Munawar Sultana and M. Anwar Hossain : Mutational insights into the envelope protein of SARS-CoV-2 , Gene reports (impact factor:0.61) , vol.22 , pp.100997 , 2020 . |
| 9 | A. S. M. Rubayet UI Alam, <u>M. Rafiul Islam</u> , M. Shaminur Rahman, Ovinu Kibria Islam and M. Anwar Hossain : Understanding the possible origin and genotyping of the first Bangladeshi SARS-CoV-2 strain , Journal of medical virology (impact factor:2.021) , vol.93 , no.1 , pp.1-4 , 2020 . |