

RU researchers find 9 new dengue genes

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A research team of the department of genetic engineering and biotechnology at Rajshahi University has identified nine new genes of dengue virus.

Simultaneously, the team selected possible drugs to prevent the virus effectively.

Three students of the department—Abdul Latif, Al Noman and Faisal Ahmed—conducted the research. Associate Professor Asaduzzaman supervised the works.

Talking to BSS, Abdul Latif said that they analysed the genetic data collected from the dengue virus patients.

The spotted genes are: CDK1, BIRC5, TYMS, KIF20A, CCNB2, CDC20, AURKB, TK1 and PTEN.

‘We have also selected three preventive drugs through analysing biotechnologies of the genes,’ he said, adding that the drugs are: Entrectinib, Emlatinib and Kinetin, which can play a vital role to prevent the dengue virus effectively in future.

The research also shows that some change related to micro RNA occurs in the body due to the virus infection that may play a role to prevent virus. Specially, the influence of MIR-103A-3P microRNA is very positive for dengue prevention.

Abdul Latif also said the drugs don’t target the virus rather it targets the associated genes of the virus in the human body.