## Press release

**Title:** GBPD060 is an effective single-dose mRNA vaccine against SARS-CoV-2, published in the pre-eminent peer-reviewed medical journal 'Vaccine'.

**Content:** GBPD060 is the first effective single-dose vaccine based on mRNA technology that has shown strong protection in human cells and animal models against SARS-CoV-2 virus with a single dose. Competing with the global race, Globe Biotech Limited, a pioneer biotech company in Bangladesh, has developed this vaccine. The proposed commercial names for GBPD060 vaccine are BANCOVID<sup>®</sup> and BANGAVAX<sup>®</sup>.

Despite facing a lot of challenges (arrangement of raw materials, adaptation to new technologies, lack of research funds etc.), as working in a developing country, a young group of scientists lead by Dr. Kakon Nag and Dr. Naznin Sultana has designed and developed this single-dose vaccine.

Preclinical study revealed that GBPD060 is non-toxic and safe for administration in *in vivo*. The unique design, technology and formulation have generated effective pharmacological response. The vaccine has produced high-level of specific neutralizing antibody titer at day-14, which was detected even at day-7 of post-immunization. Sufficient population of memory cells were found till day-91 of immunization and expecting onward, which suggested that the vaccine has long-lasting virus neutralization capacity. The data demonstrated that the vaccine would be safe and may provide stable immunity against SARS-CoV-2 in the human.

This vaccine will be economical compared to other mRNA vaccines, and therefore, will be easily accessible for low- and middle-income countries. Thereby, nearly 5 billion of human lives will get the opportunity to have 'mRNA vaccine', which is the safest and most efficacious vaccine technology in the world. Since it is a single-dose vaccine, therefore the purchase would be cost-effective and the vaccination time would be faster of traditional vaccines.

"An mRNA-based vaccine candidate against SARS-CoV-2 elicits stable immune response with single dose" by Kakon Nag et al., DOI: <u>http://dx.doi.org/10.1016/j.vaccine.2021.05.035</u>. It will be published in Vaccine, Volume 39 (2021) published by Elsevier. "Copies of this paper are available to credentialed journalists upon request; please contact Elsevier's Newsroom at <u>newsroom@elsevier.com</u> or +31 20 485 2719".

## About Vaccine

Vaccine is the pre-eminent journal for those interested in vaccines and vaccination. It is the official journal of The Edward Jenner Society and The Japanese Society for Vaccinology and is published by Elsevier <u>www.elsevier.com/locate/vaccine</u>