M. Yoneda LAB.

[Vaccines Made in JAPAN to the World]

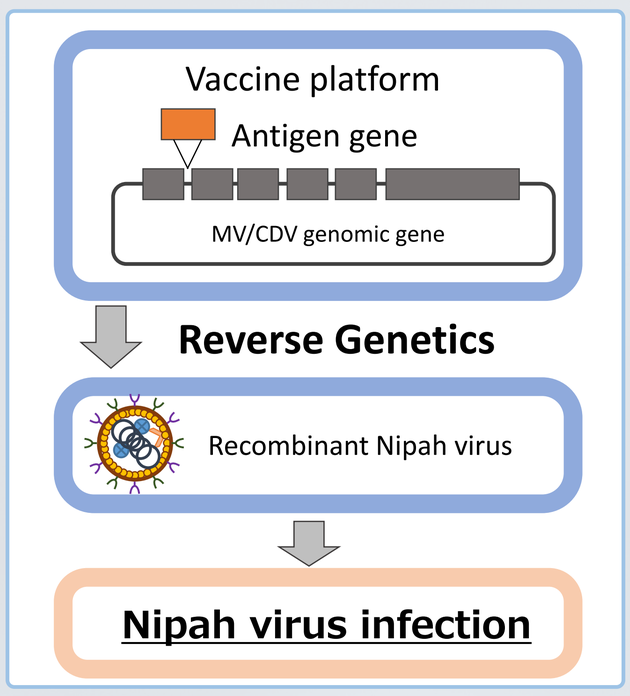
Department of Mechanical and Biofunctional Systems
Virological Medicine

Medical Science Graduate Program
Pathology, Immunology and Microbiology

Graduate School of Agricultural and Life Sciences
Veterinary Medical Sciences

https://www.yonelab.iis.u-tokyo.ac.jp

Utilizing reverse genetics by producing viruses from genes, we have succeeded in creating the worlds first ‘ Nipah virus ’.
Through this innovation, the reasons for the high mortality from the Nipah virus and transmission across animal species have been researched and discovered.



In September 2020, with the support of the Japan Agency for Medical Research (AMED), we have succeeded in producing recombinant measles virus that can express the spike （S） protein (Antigen, target of vaccine). This virus was produced based on the knowledge and technique of the previously developed Nipah virus vaccine. In hamster experiments, we have obtained preliminary results showing that this recombinant virus can exert a preventive effect against Covid-19 infection.

We are collaborating with Project Professor Kai. We hope that our vaccine will help save the world from infectious disease.