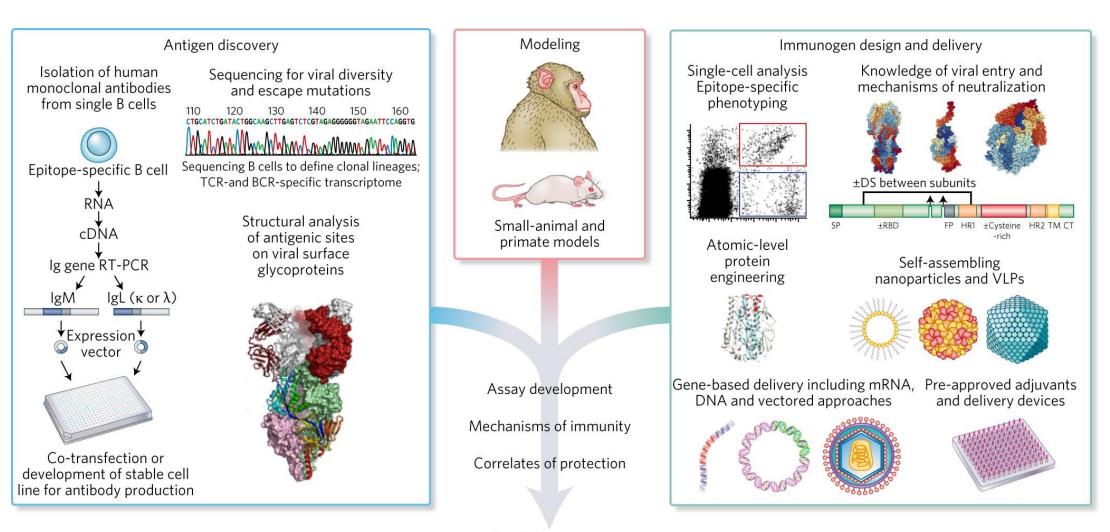
Taking the Pandemic Threat Off the Table

Rajeev Venkayya, MD President, Takeda Vaccines Member, CEPI Board

Prototype pathogen strategy



Candidate vaccine

Preparing the Platforms

Preclinical

- Animal models
- Tox studies

Clinical

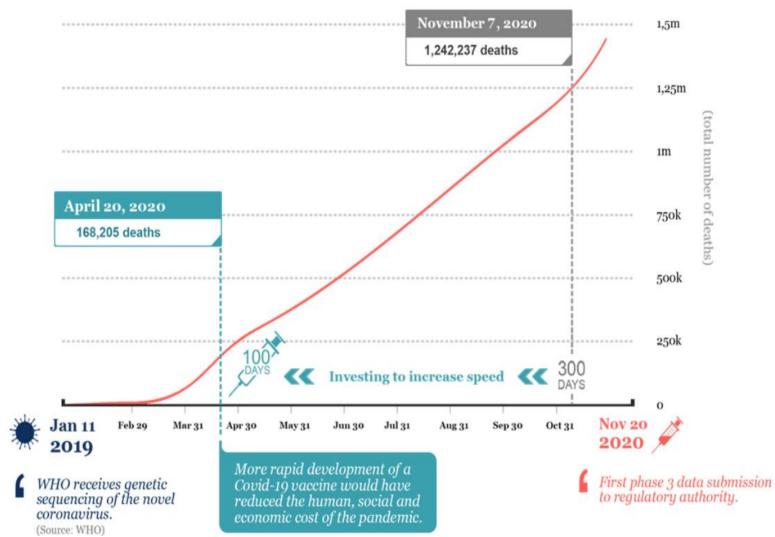
- Safety & immunogenicity
- Clinical trial protocols for outbreak response

Chemistry, Manufacturing and Controls (CMC)

- Process validation
- Scale-up
- Assays

Manufacturing

Speed is of the essence in outbreak response



With COVID-19 it took about **300 days** from virus characterisation to submission of phase 3 data.

CEPI's aspiration is reduce this time to **100 days** for future outbreaks.



Thank You

Prototype pathogen strategy

REVIEW ARTICLE

https://doi.org/10.1038/s41590-017-0007-9



Emerging viral diseases from a vaccinology perspective: preparing for the next pandemic

Barney S. Graham * and Nancy J. Sullivan*

Emerging infectious diseases will continue to threaten public health and are sustained by global commerce, travel and disruption of ecological systems. Most pandemic threats are caused by viruses from either zoonotic sources or vector-borne sources. Developing better ways to anticipate and manage the ongoing microbial challenge will be critical for achieving the United Nations Sustainable Development Goals and, conversely, each such goal will affect the ability to control infectious diseases. Here we discuss how technology can be applied effectively to better prepare for and respond to new viral diseases with a focus on new paradigms for vaccine development.