

Vaccines



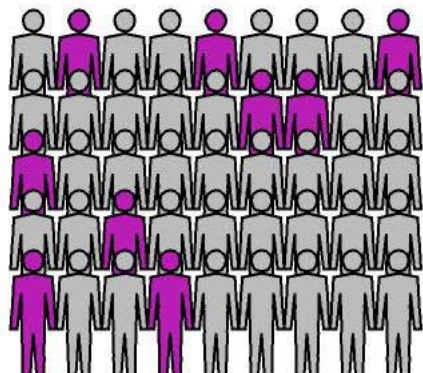
Therapeutics



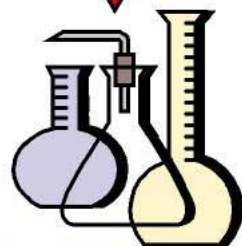
Diagnostics



**NIH
Influenza
Research**



**Surveillance
and
Epidemiology**

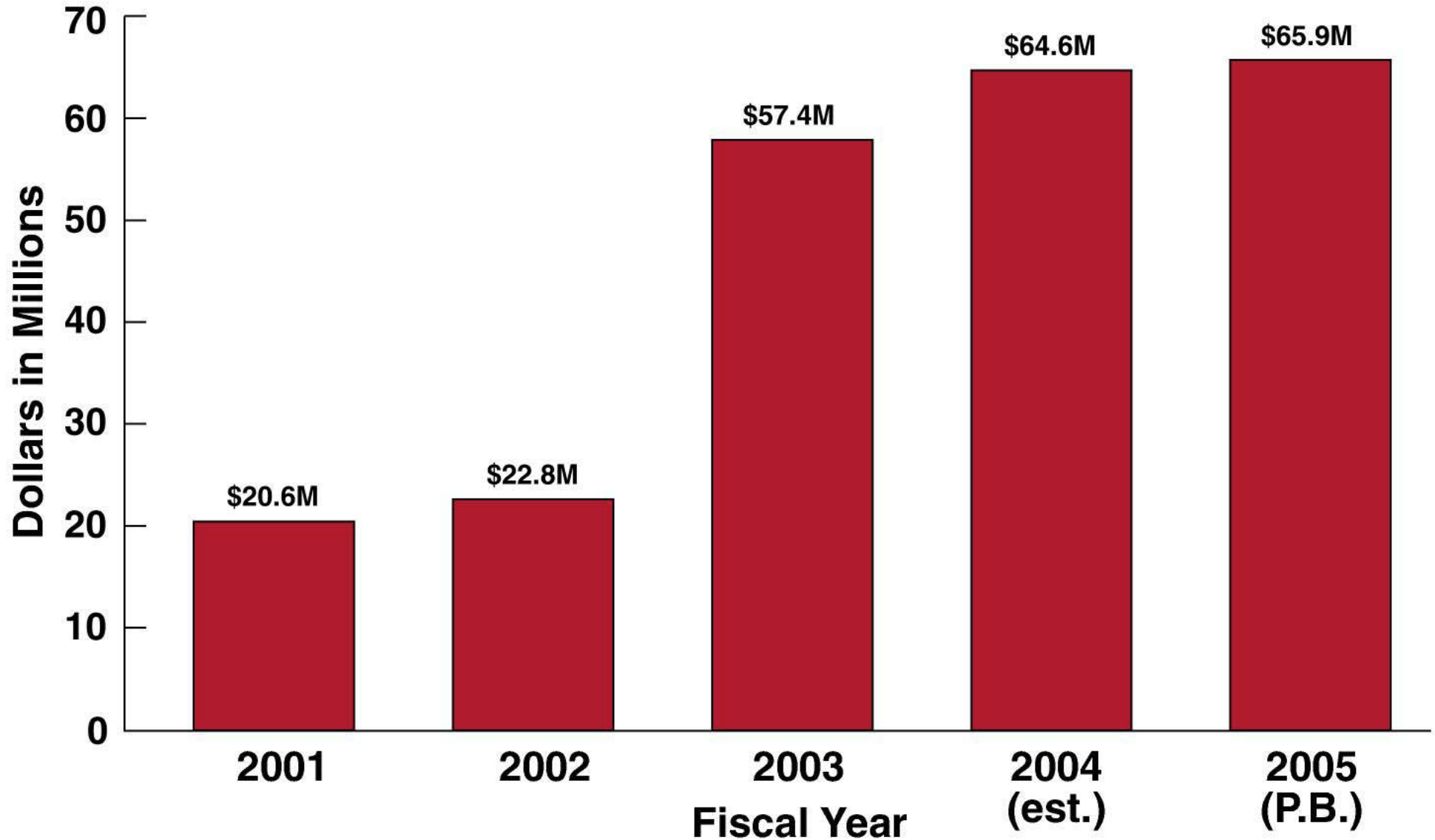


Basic Research

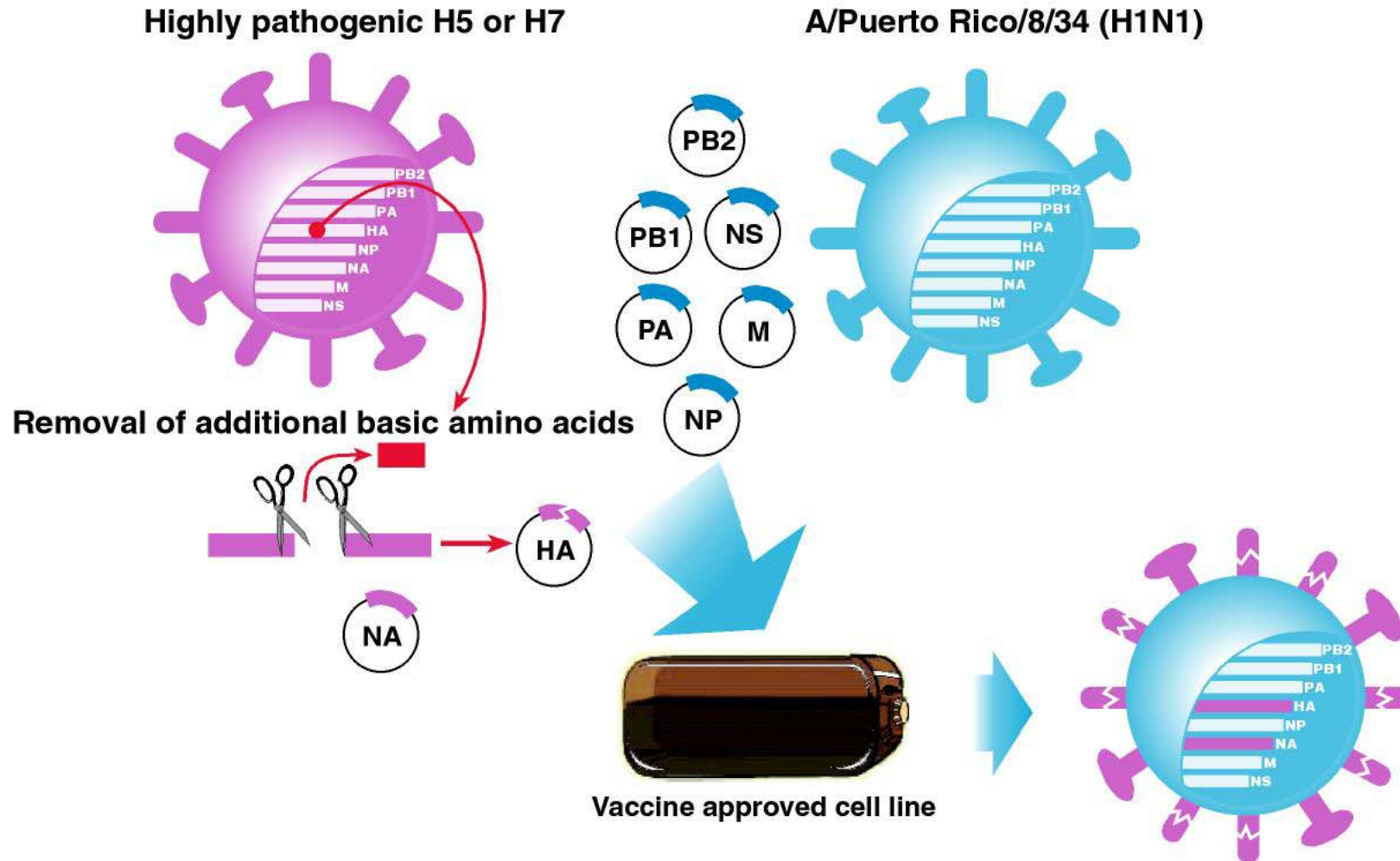


**Expansion of
Research
Capacity**

NIH Influenza Research Funding



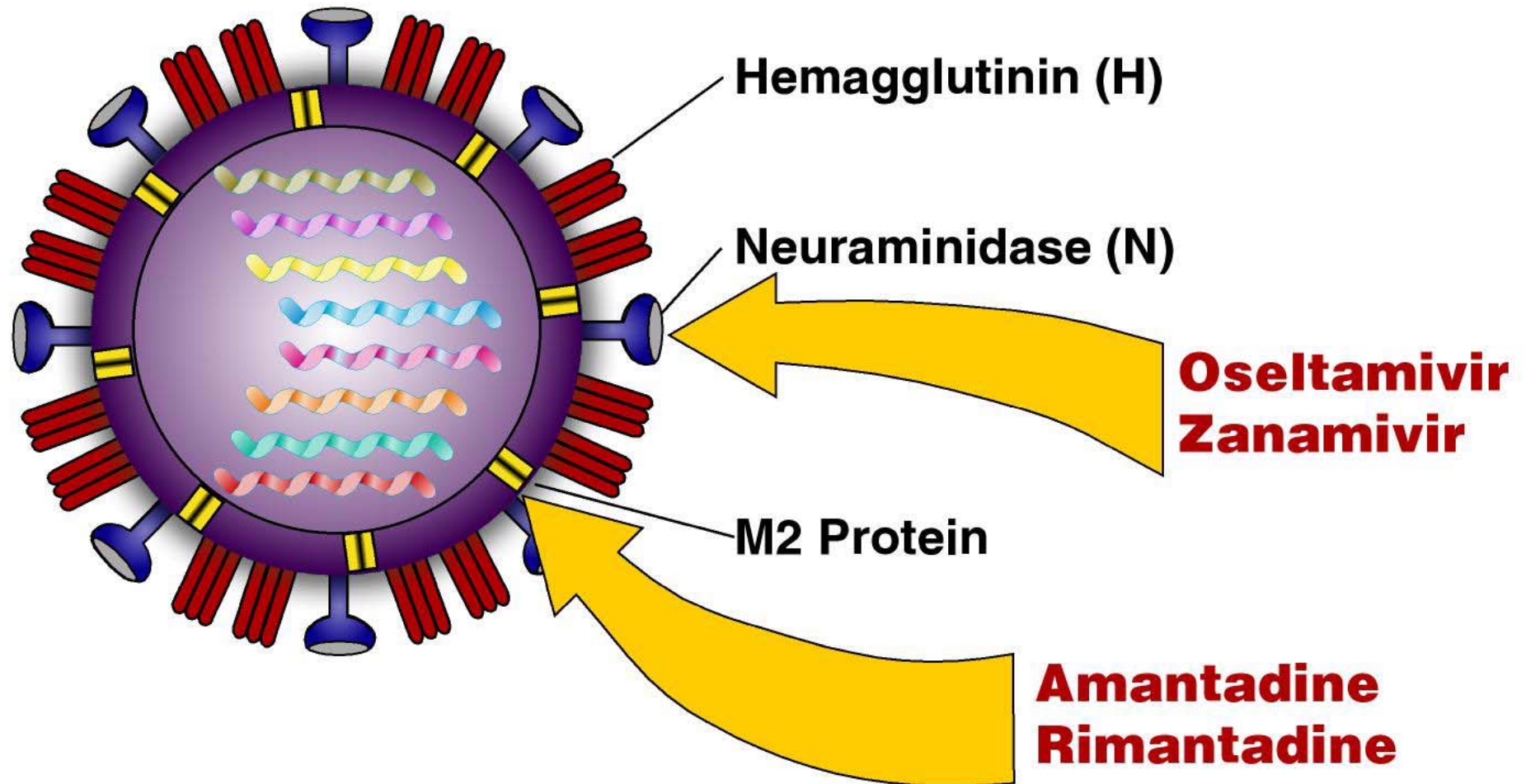
Influenza Vaccine Seed Virus Production Using a Reverse Genetics System



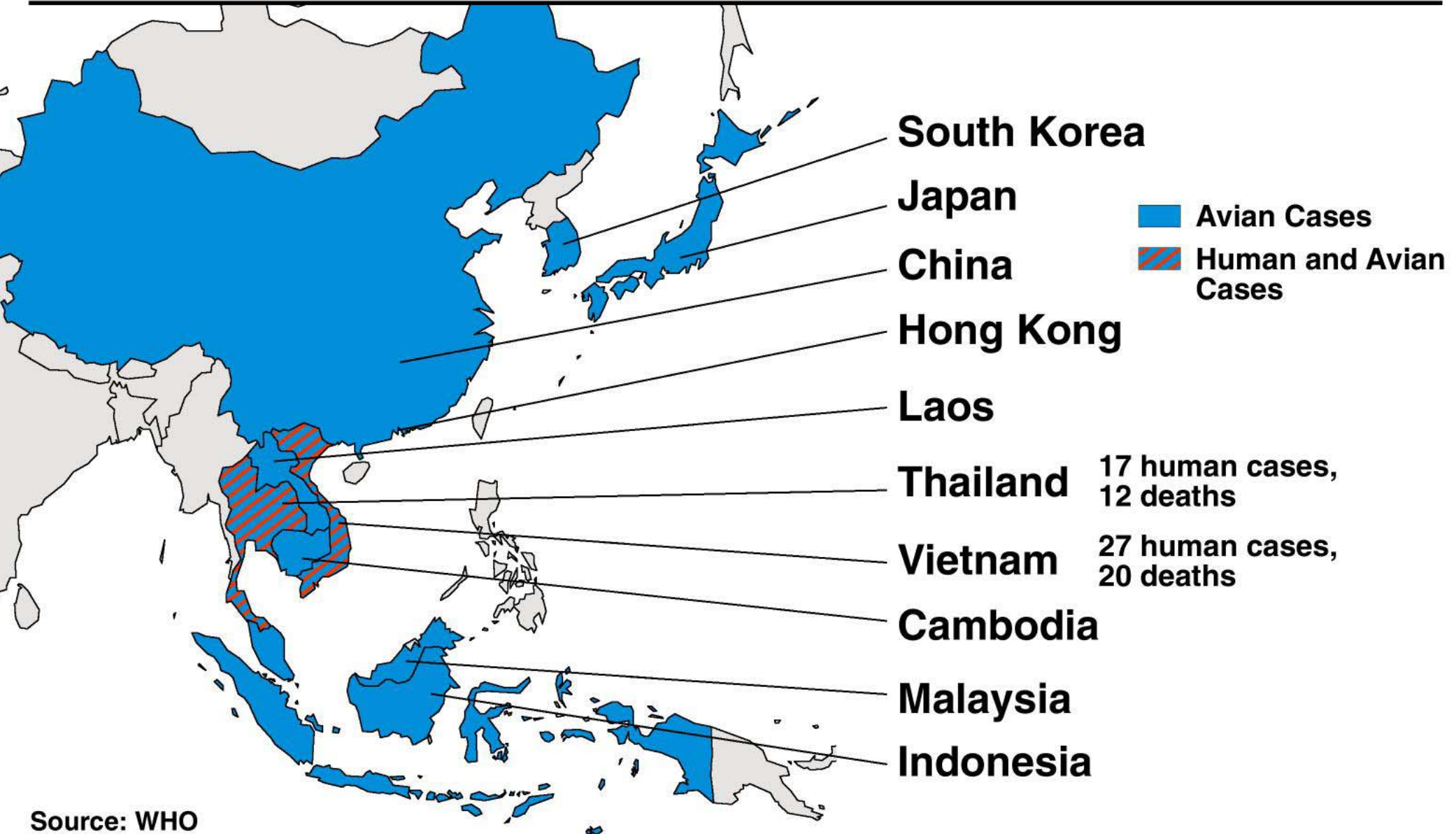
Alternatives to Egg-Based Influenza Vaccine Production

- **Cell culture-based vaccine production**
- **Recombinant DNA methods**

Antiviral Therapies for Influenza



H5N1 Influenza in Asia, 2004



Source: WHO

NIH Activities in Preparation for Pandemic Influenza

- **Isolation of seed virus by reverse genetics**
- **Development of vaccine pilot lots for clinical trials**
- **Execution of vaccine clinical trials**
- **Screening and development of new therapeutics**