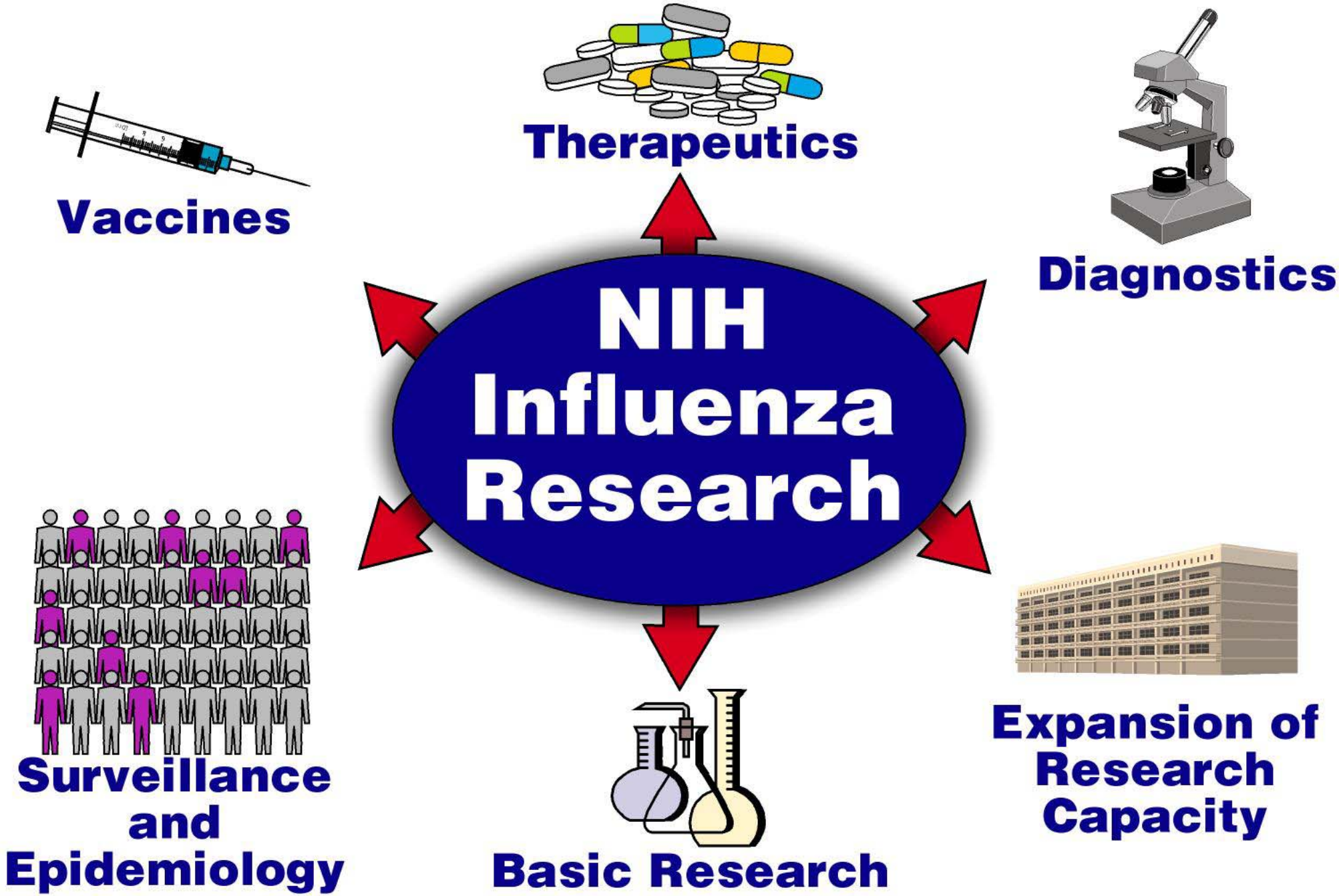
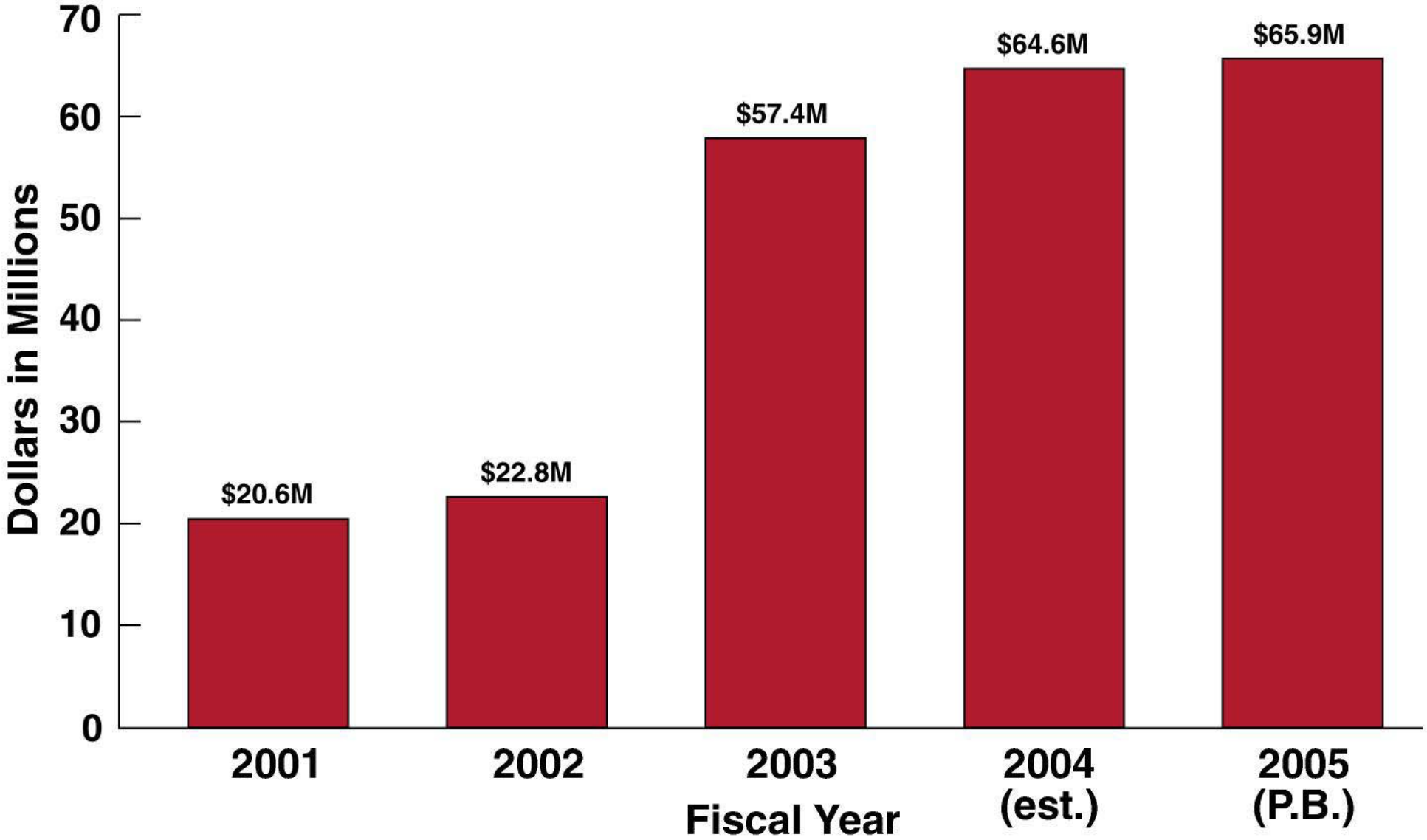
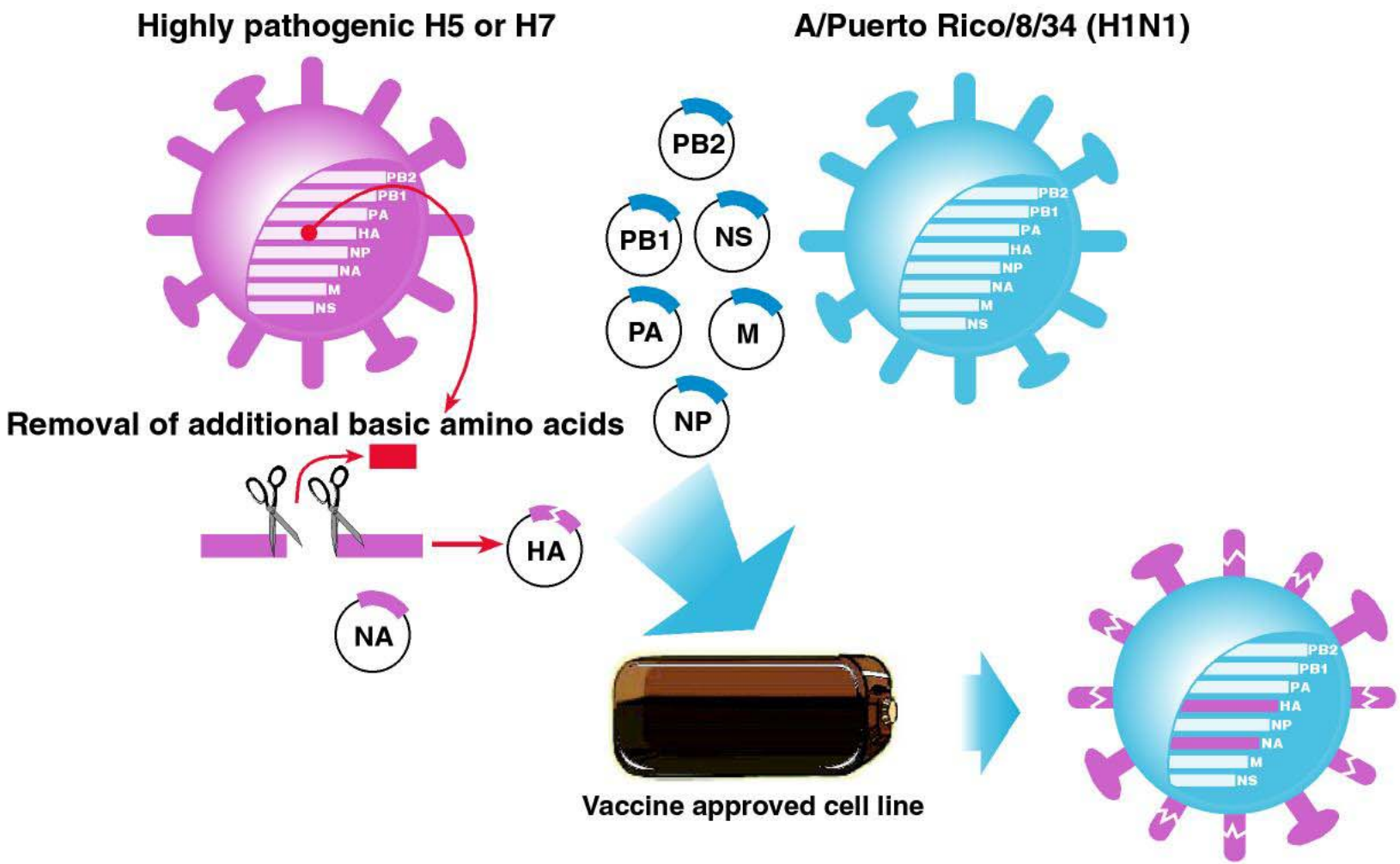

Vaccines
Therapeutics
Diagnostics
NIH Influenza Research
Surveillance and Epidemiology
Basic Research
Expansion of Research Capacity

NIH Influenza Research Funding



Influenza Vaccine Seed Virus Production Using a Reverse Genetics System

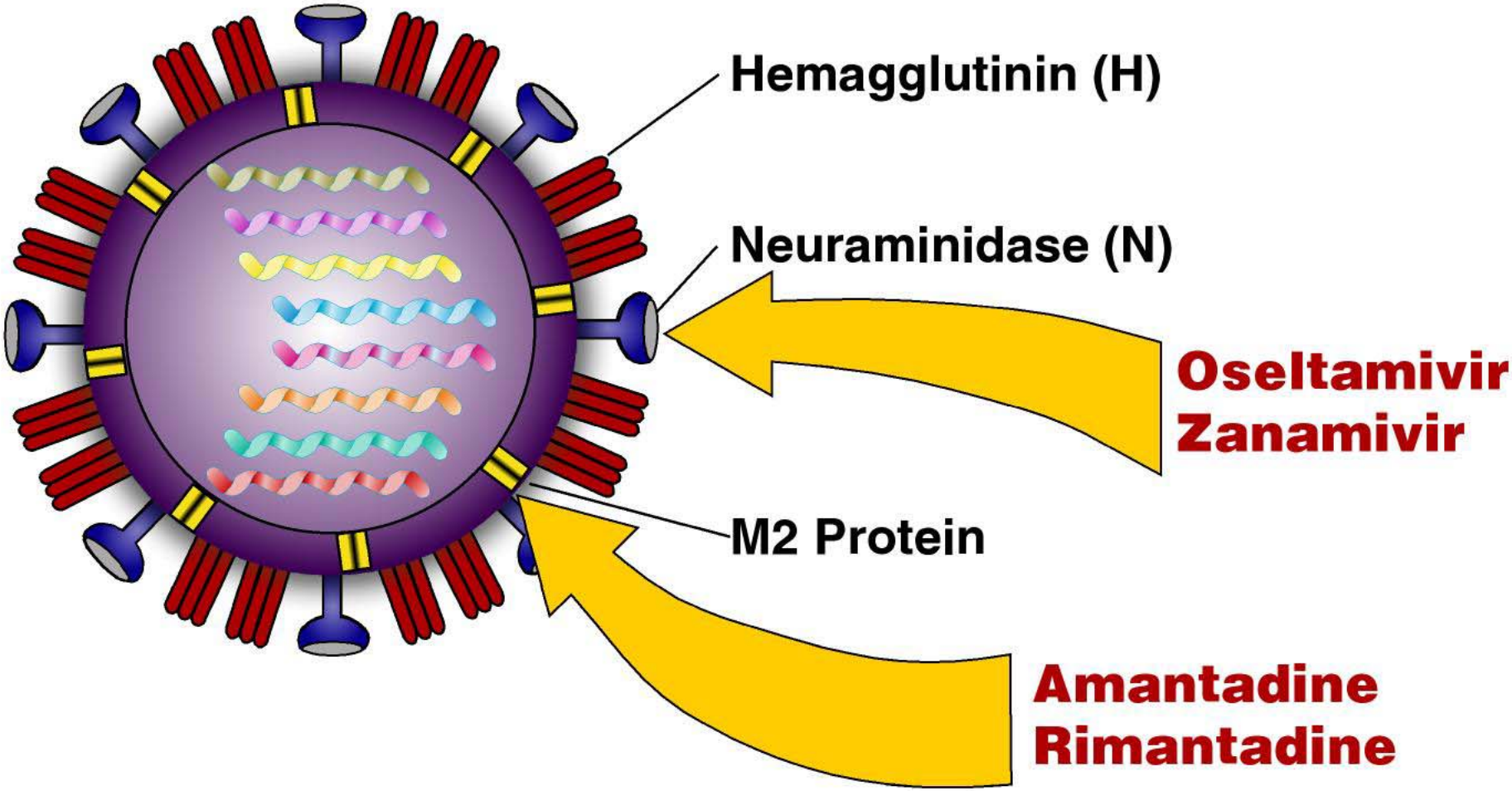


Source: Webster et al: *Vaccine* 20:3165 (2002); Science 302:1519 (2003)

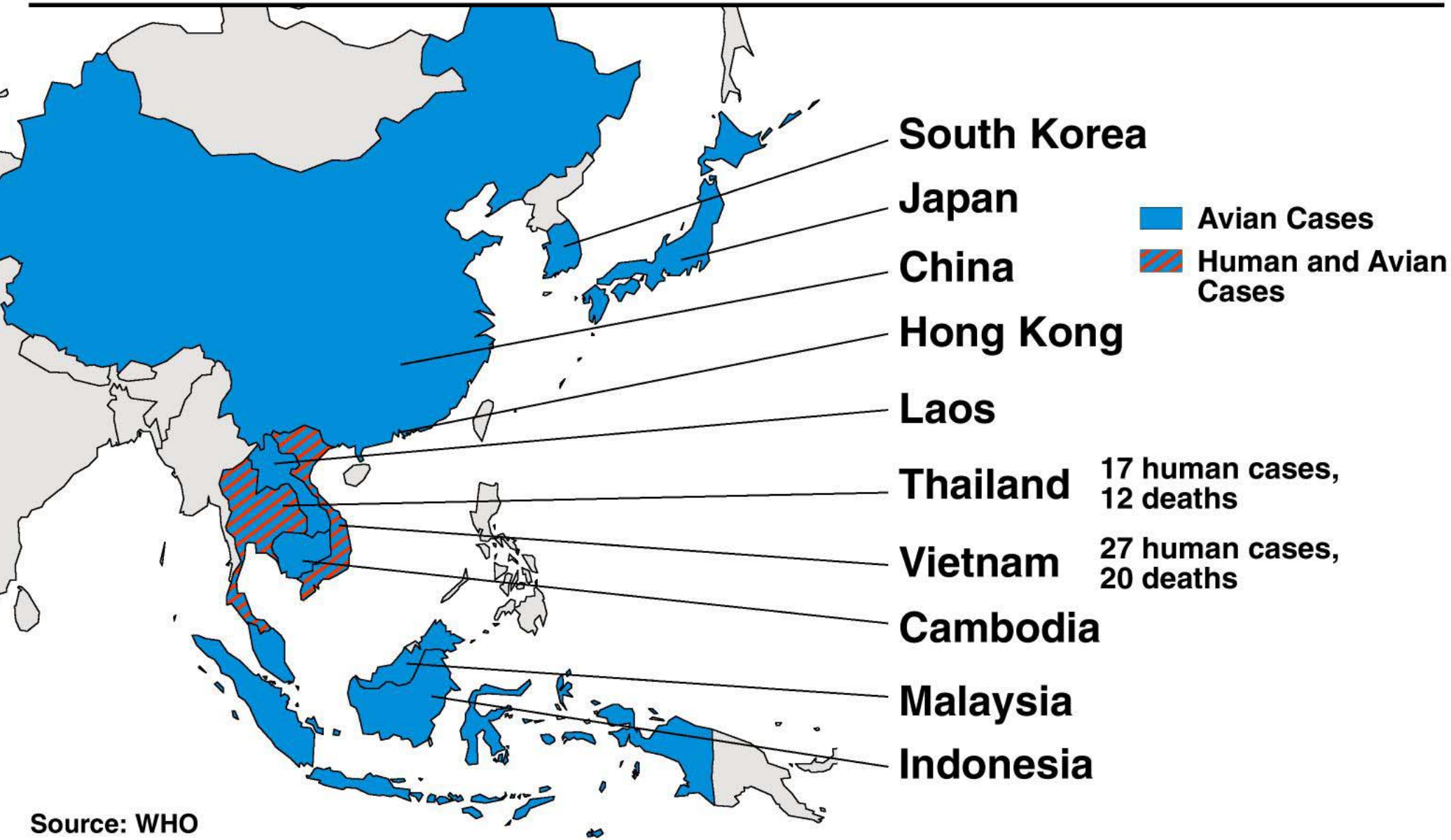
Alternatives to Egg-Based Influenza Vaccine Production

- 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