

# Influenza A virus

図 1

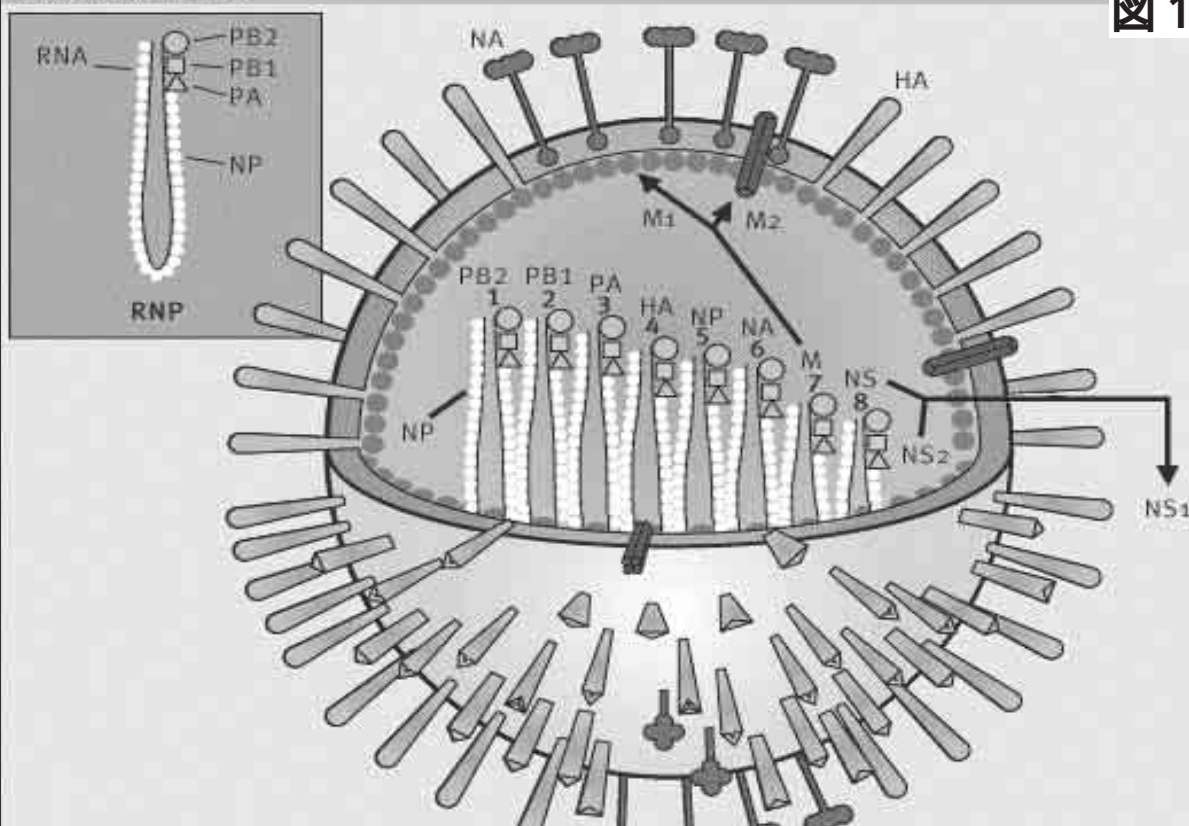
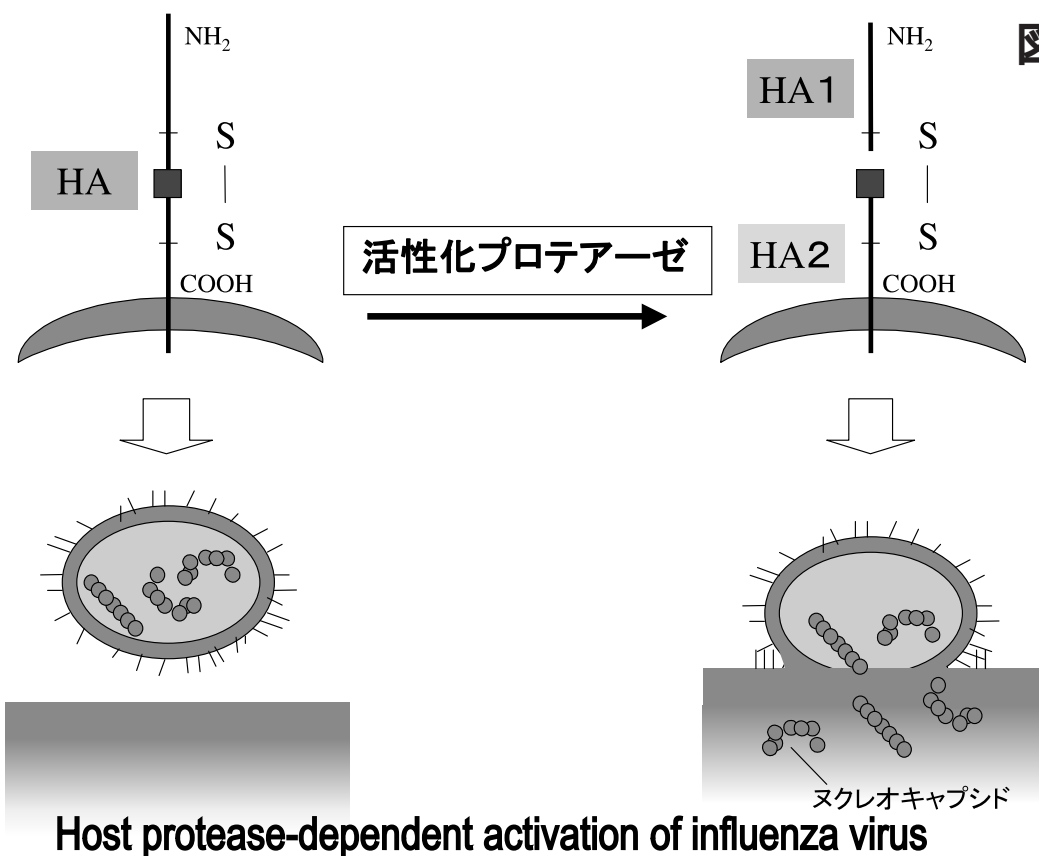
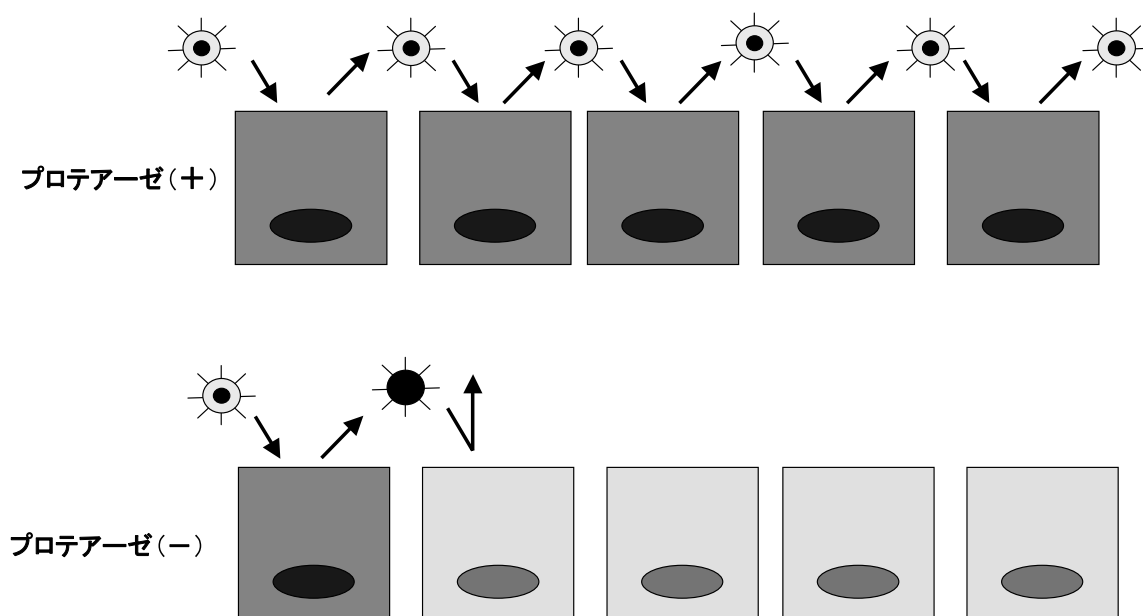


図 2



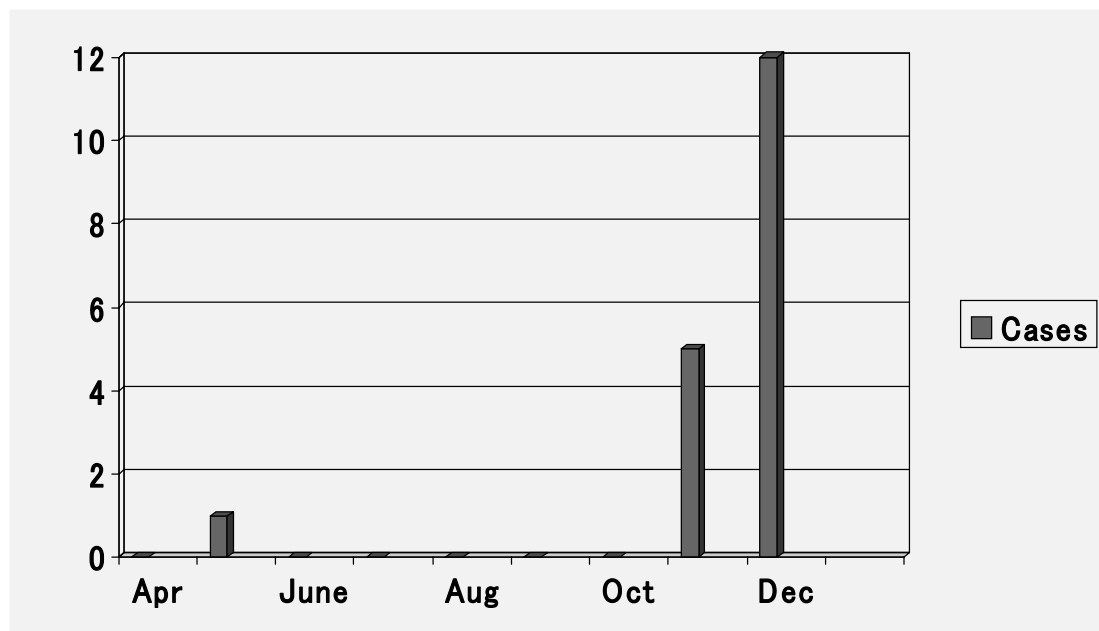


Host protease-dependent tissue tropism of influenza virus

## First Investigation

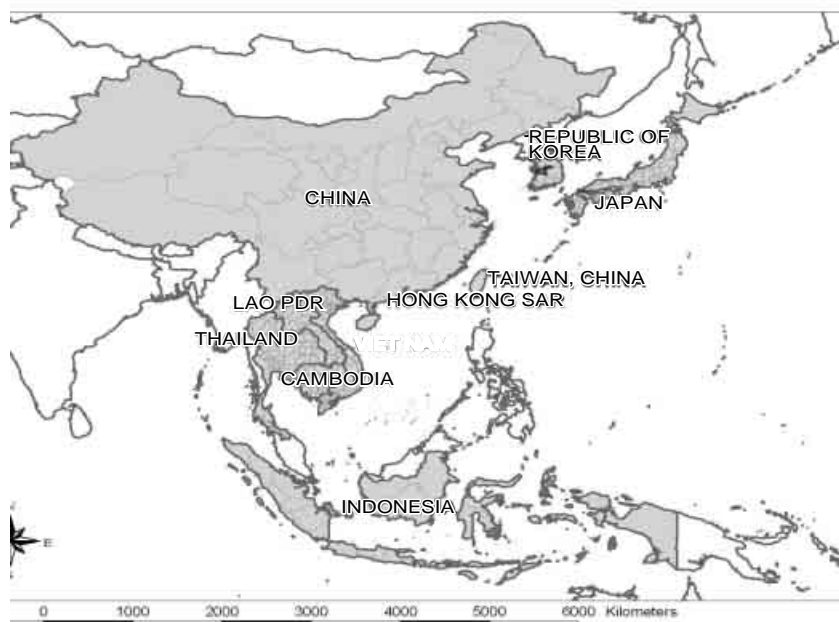
- Microneutralization serology test results
  - Case contacts .....3/382 (0.8%)
  - Lab workers .....1/73 (1.4%)
  - Poultry workers .....5/29 (17.2%)
  - Swine workers .....0/18
  - Adult blood donors.....0/201
  - Children in vaccine trial...0/218

# H5N1 Outbreak, Hong Kong, 1997 5



1997 -1998

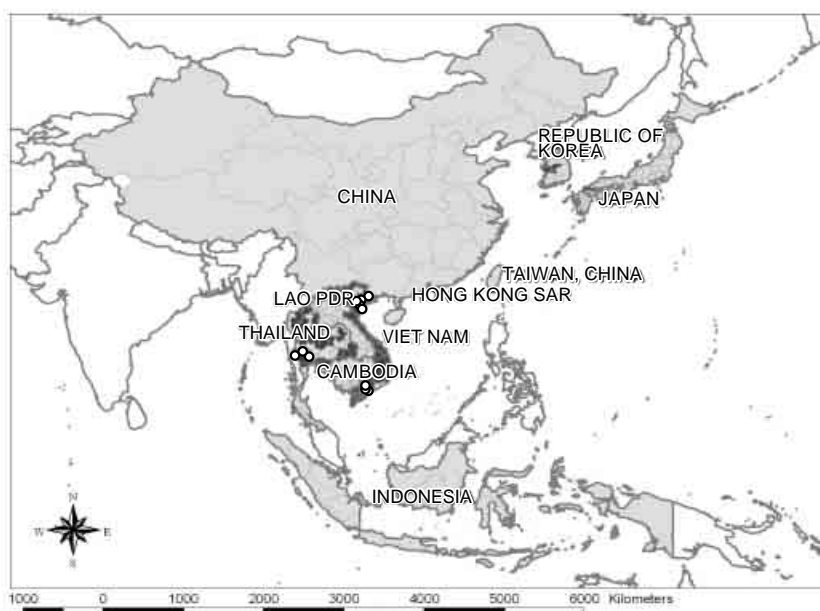
## Avian influenza (H5N1) in Asia as of 1st week January 2004 6



Data source: OIE/FAO/WHO; National authorities

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## Avian influenza (H5N1) in Asia as of 20 January 2004



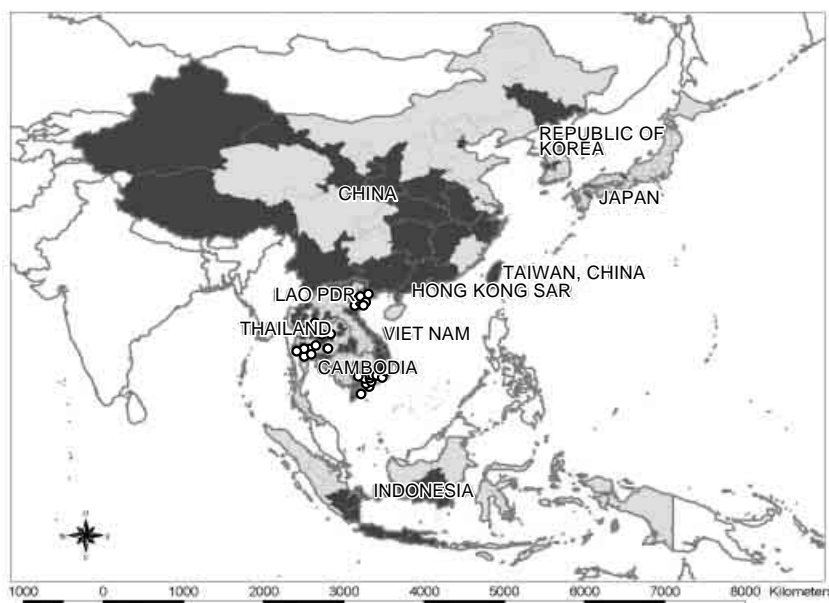
○ 1 human case  
Thailand n=3  
Viet Nam n=8

■ Confirmed animal cases  
■ Currently affected countries

Data source: OIE/FAO/WHO; National authorities

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## Avian influenza (H5N1) in Asia as of 10 March 2004



○ 1 human case  
Thailand n=11  
Viet Nam n=22

■ Confirmed animal cases  
■ Currently affected countries

Data source: FAO/OIE/WHO; National authorities

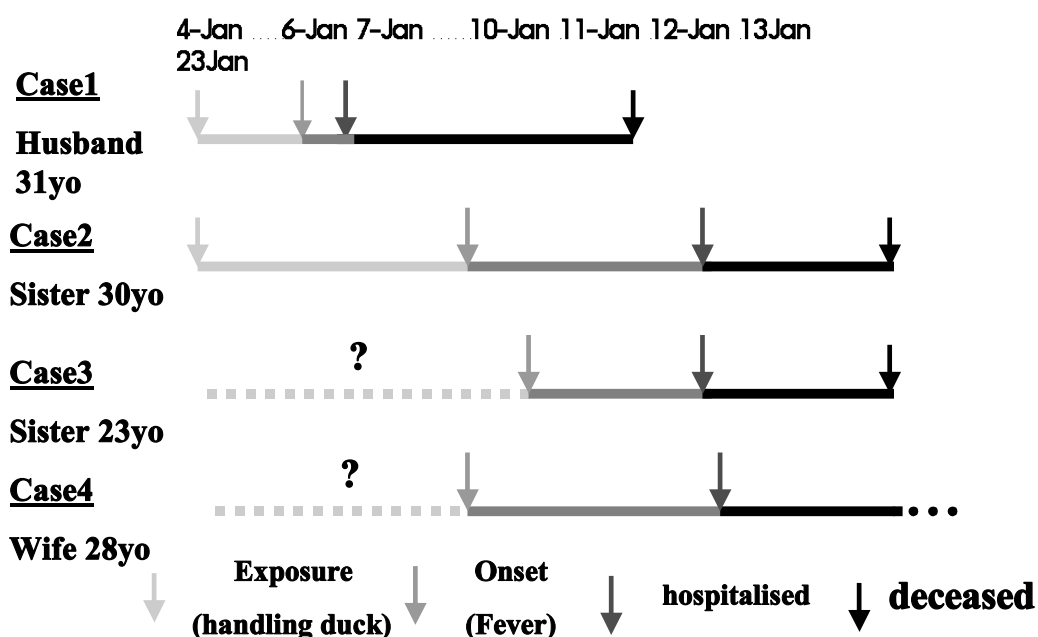


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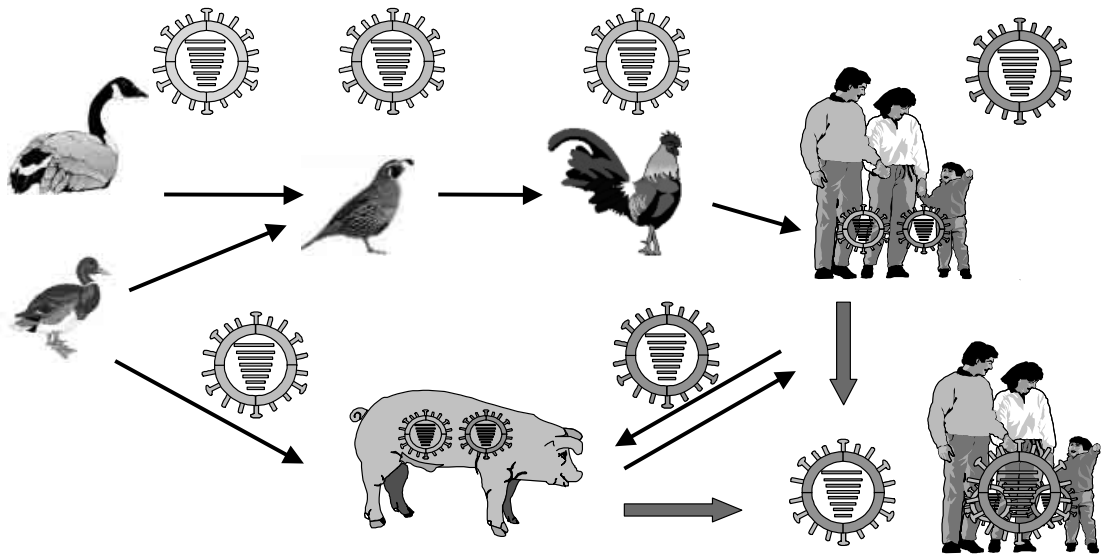
## Confirmed human cases of avian influenza A(H5N1) as of 17 March 2004

	Cases	Deaths
<b>Thailand</b>	<b>12</b>	<b>8</b>
<b>Viet Nam</b>	<b>22</b>	<b>15</b>
<b>Total</b>	<b>34</b>	<b>23</b>

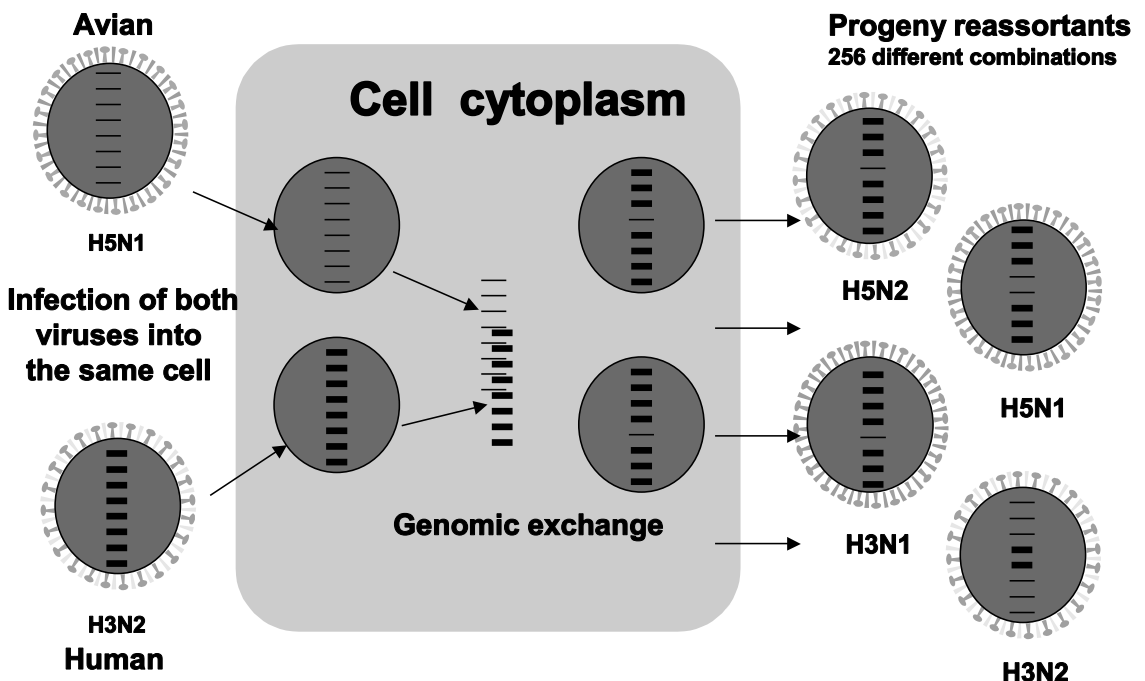
## Family cluster in Viet Nam: Possible human to human transmission



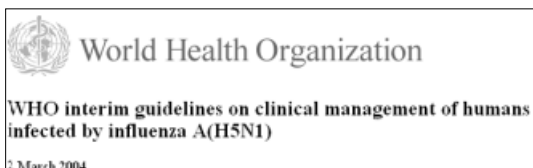
## Possible emergence of a pandemic virus by gene reassortment between avian and human influenza viruses



## Reassortment of Influenza Virus Genes



# WHO Guidelines



2 March 2004



19 February 2004

- Full text
- Annex
- Annex
- Contents
- Object
- General
- Infection
- Case



19 February 2004

- Full text, English PDF (441 kb)

Contents

- General information



Contact with chickens, ducks or other poultry in an area with HPAI

- Avoid contact with chickens, ducks or other poultry as much as possible. Children should not have contact with poultry or any other affected birds
- Do not bring (live or dead) chickens, ducks or any other poultry with you when you are visiting friends or family, even if you think your birds are healthy
- Avoid contact with chicken farms, duck farms or any farm where animals have been sick, killed or are thought to

## Evolutionary Relationships Among Influenza A (H5N1) Hemagglutinin (HA1) Genes in South Asia: 1996-2004

Human H5N1 Isolates

Scale  
0 — 3  
nucleotides

