

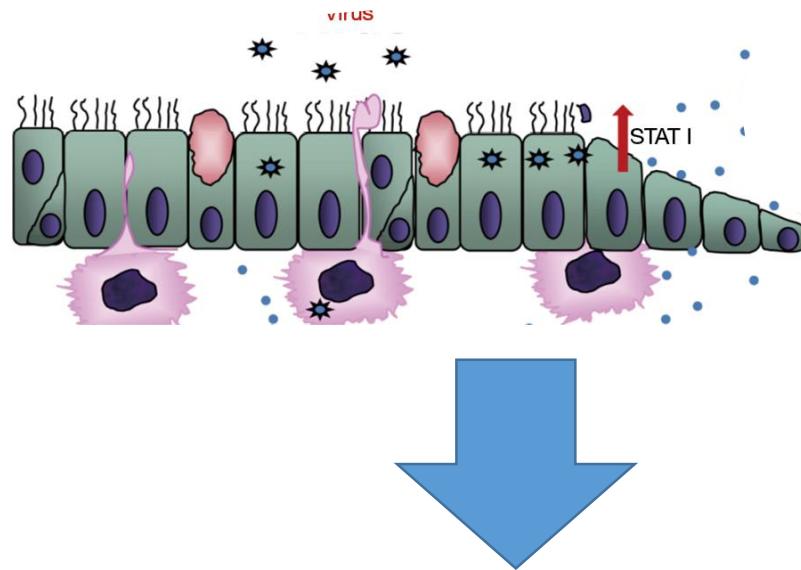
RESPON IMUN TERHADAP VIRUS

Marselina I Tan
SITH-ITB



→
RESPON
TUBUH

IMUNITAS BAWAAN

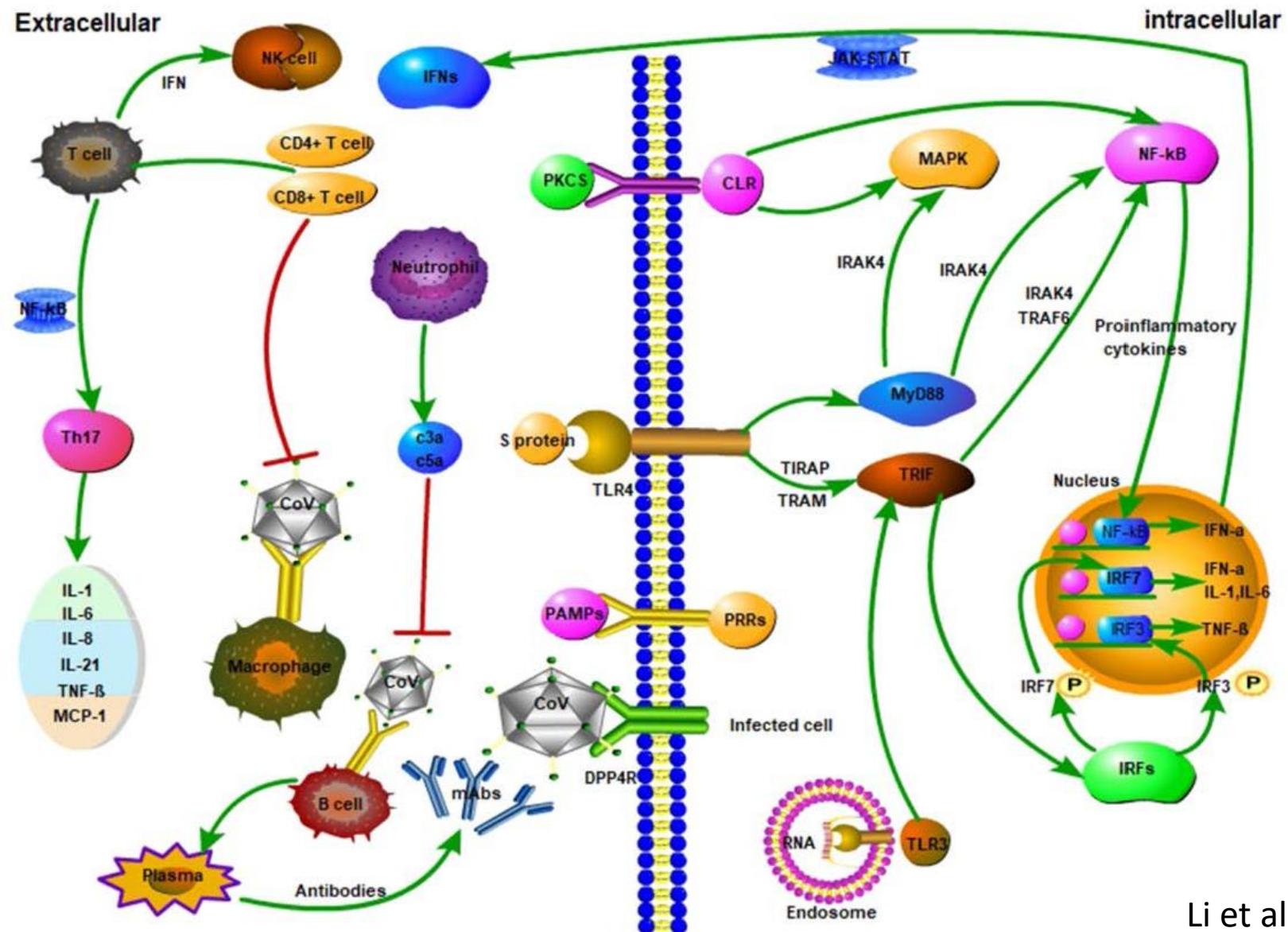


Jika dengan imunitas bawaan Dapat
diatasi → virus dapat dimusnahkan

Wang et al., 2018

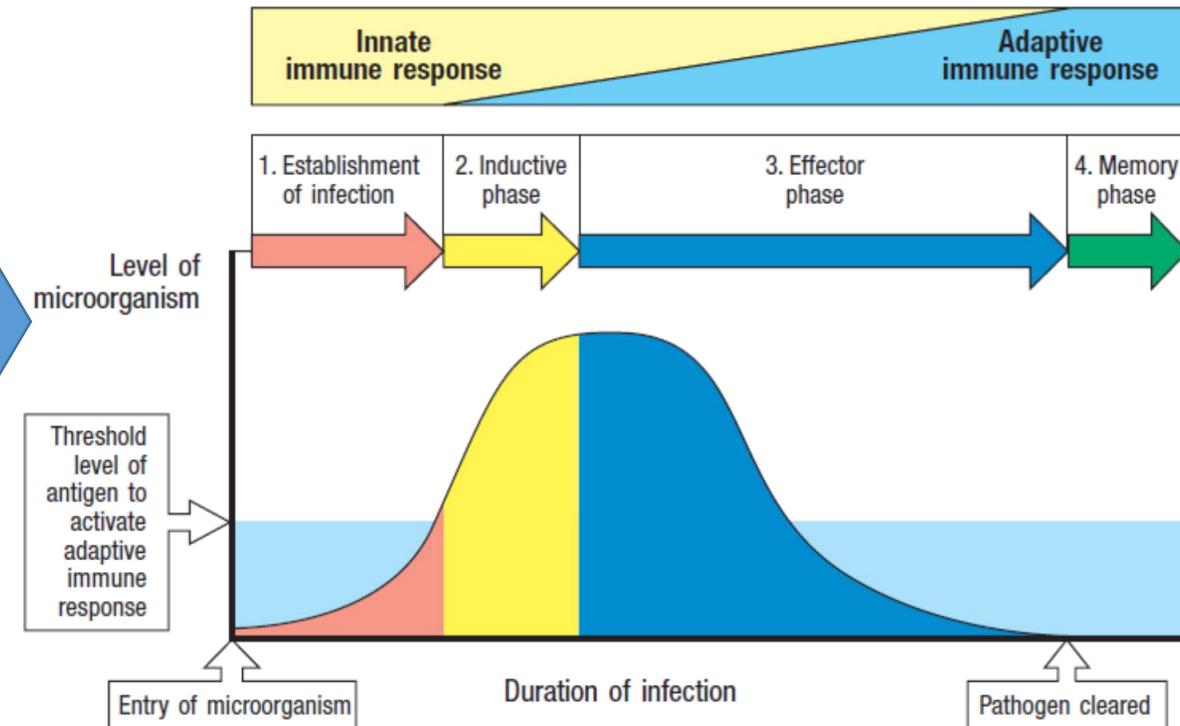
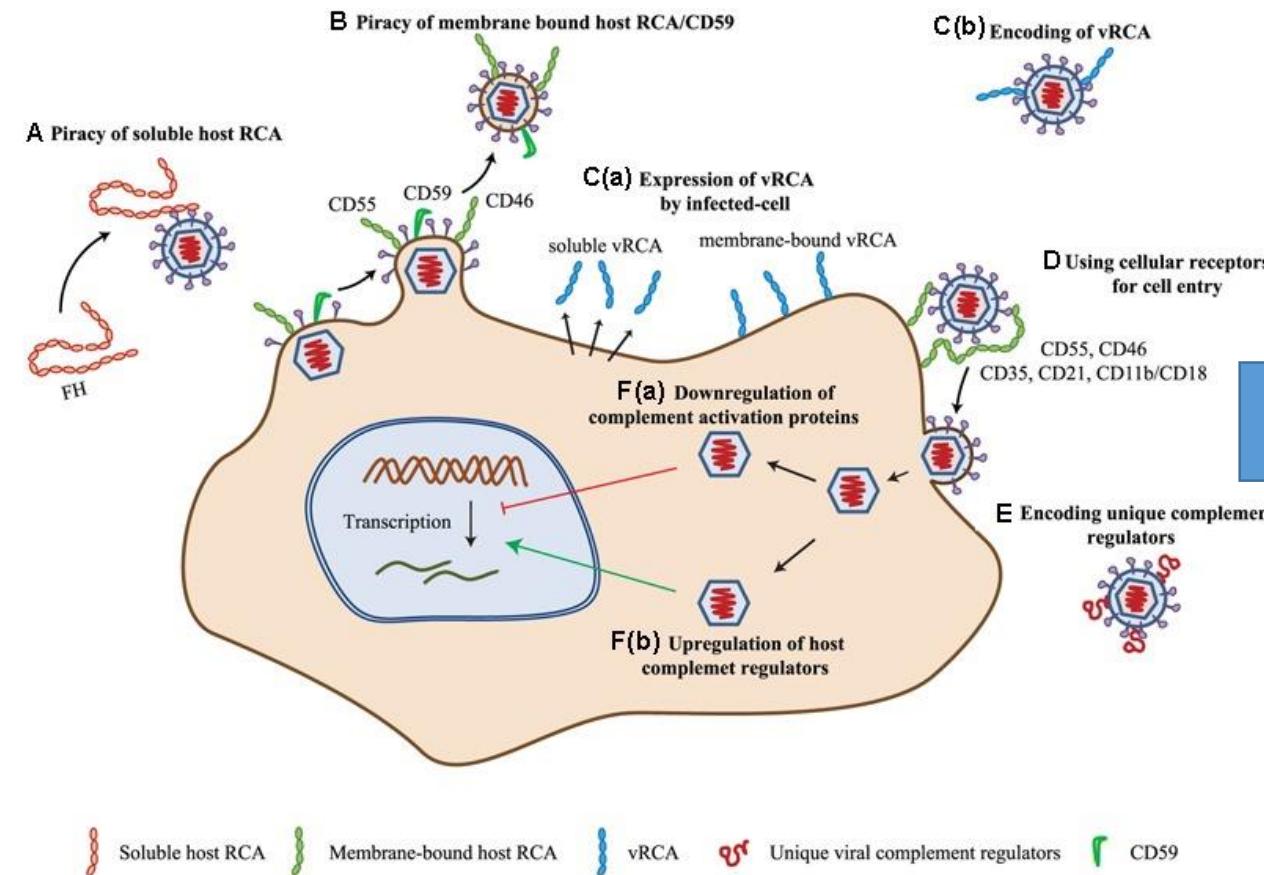
Chen et al., 2009

Mekanisme pertahanan tubuh terhadap virus Corona



Li et al., 2020

Mekanisme kerja Virus Corona untuk mengelak dari system imun bawaan

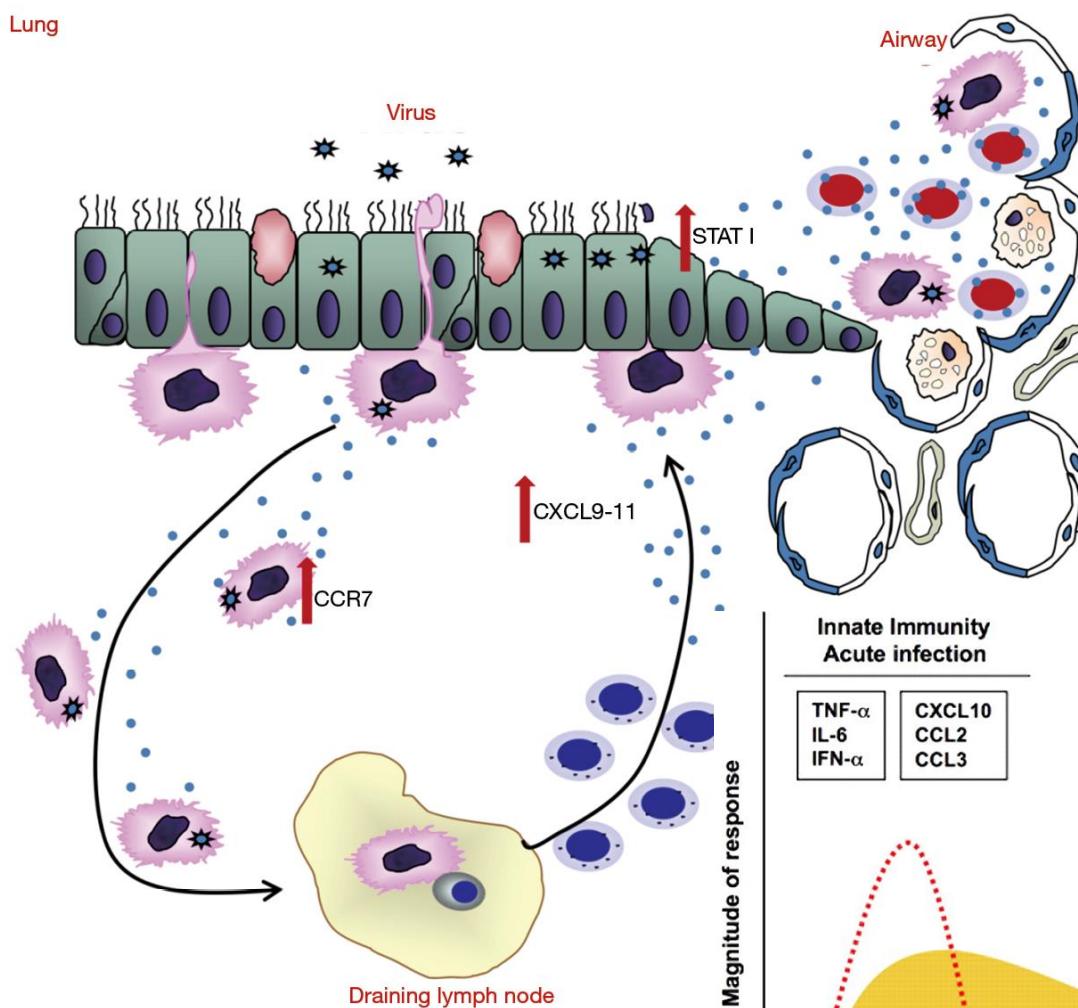


Murphy, 6th ed, 2016



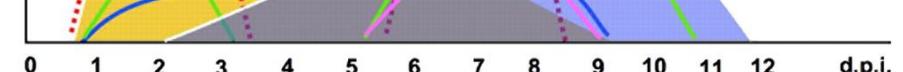
RESPON
TUBUH

IMUNITAS BAWAAN



Wang et al., 2018

IMUNITAS ADAPTIF

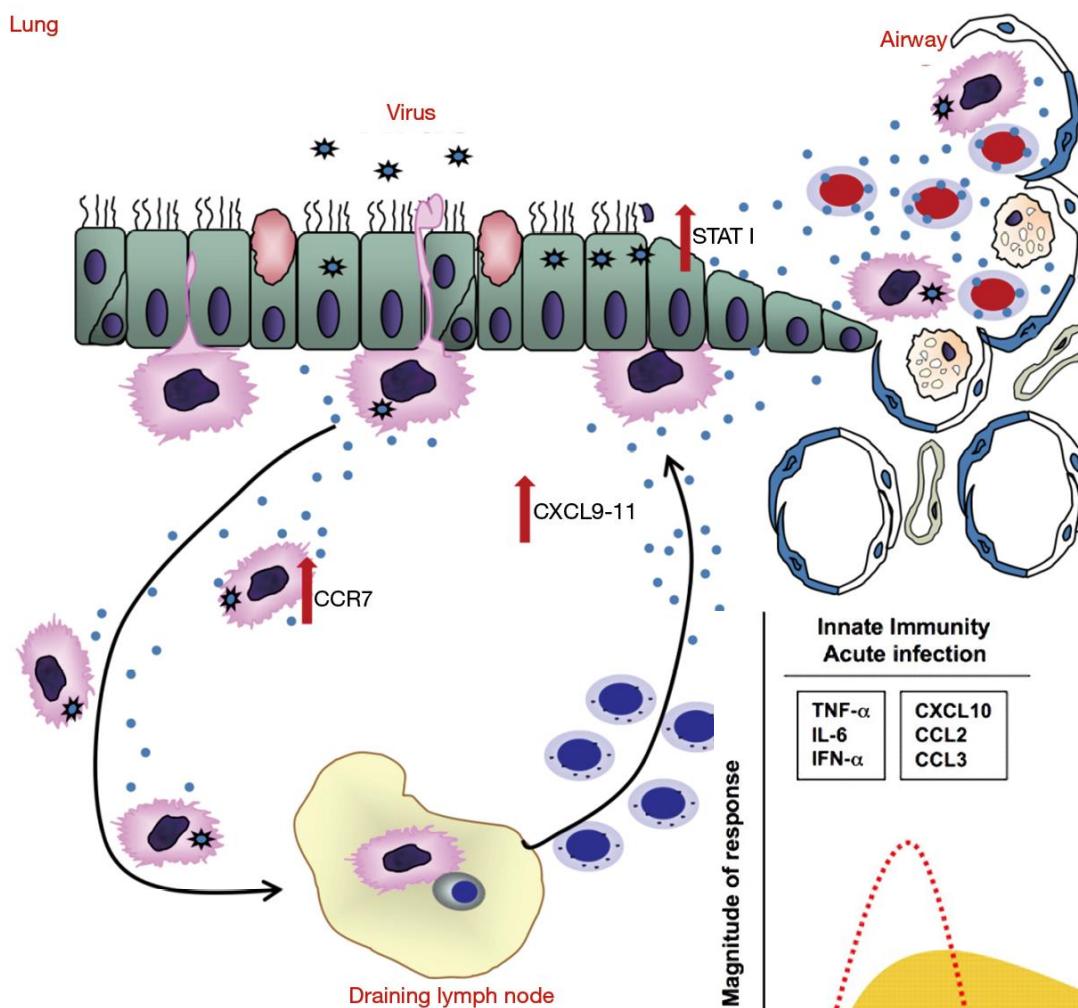


Chen et al., 2009



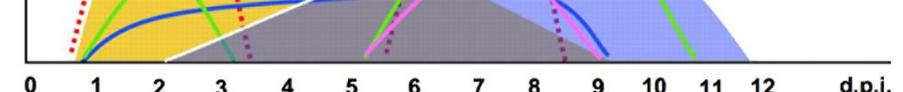
RESPON
TUBUH

IMUNITAS BAWAAN

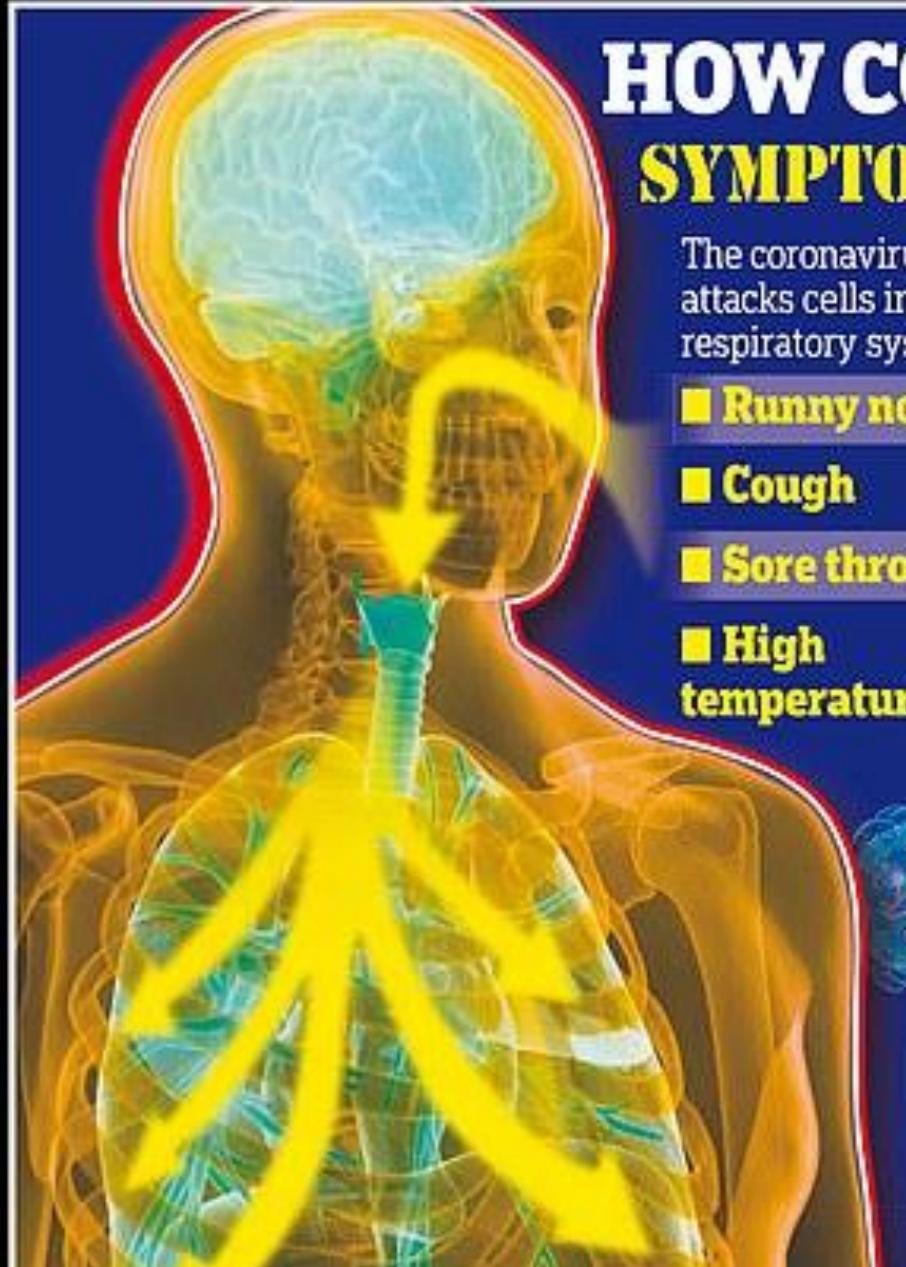


Wang et al., 2018

IMUNITAS ADAPTIF



Chen et al., 2009



HOW CORONAVIRUS CAN KILL

SYMPTOMS

The coronavirus attacks cells in the respiratory system

- **Runny nose**
- **Cough**
- **Sore throat**
- **High temperature**

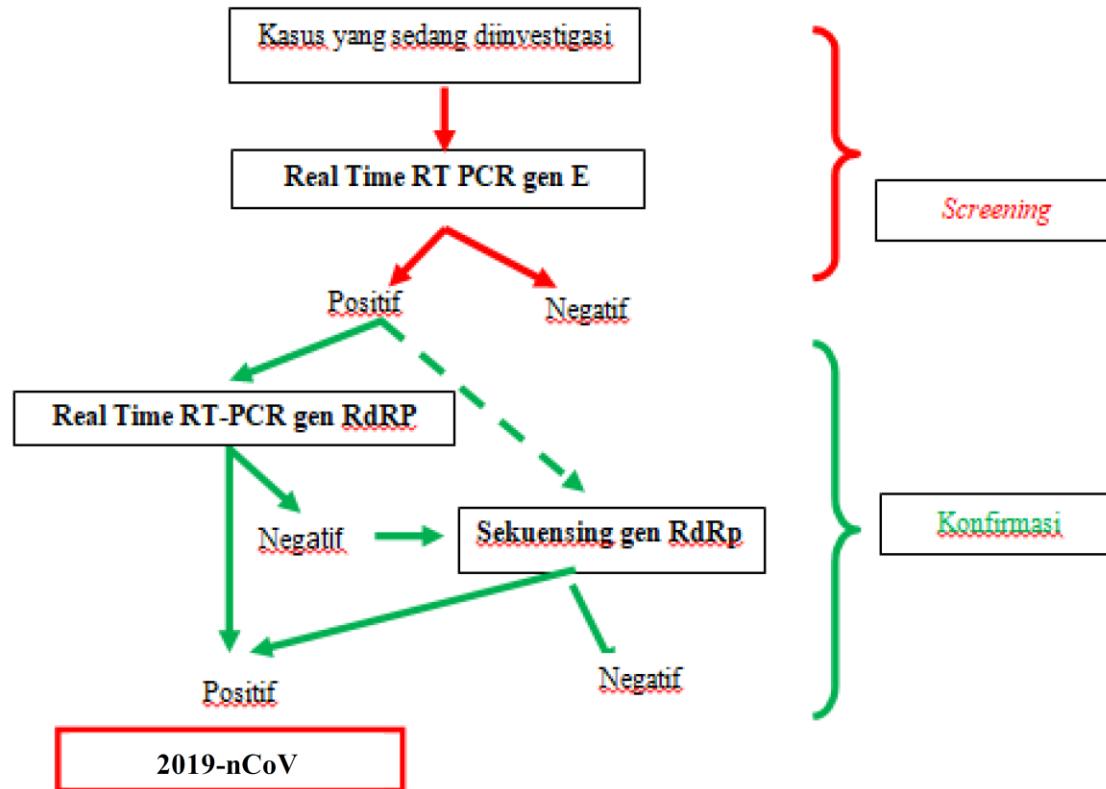
SPREAD

- Novel coronavirus first spread to humans from an animal – thought to be a snake – at the South China Seafood Wholesale Market.
- The virus is transmitted between humans in droplets from coughing and sneezing and touching or shaking hands.
- It enters humans through the nose and mouth, then finds a 'host cell' in the respiratory system, such as one in the nose. The host cell then bursts and other nearby cells in the body are infected with the virus.

DEATH

- Most victims die from complications including pneumonia and from swelling in the lungs.
- Severe pneumonia can kill people by causing them to 'drown' in the fluid flooding their lungs.
- The virus also causes swelling in the respiratory system, which can make it hard for the lungs to pass oxygen into the bloodstream – leading to organ failure and death.

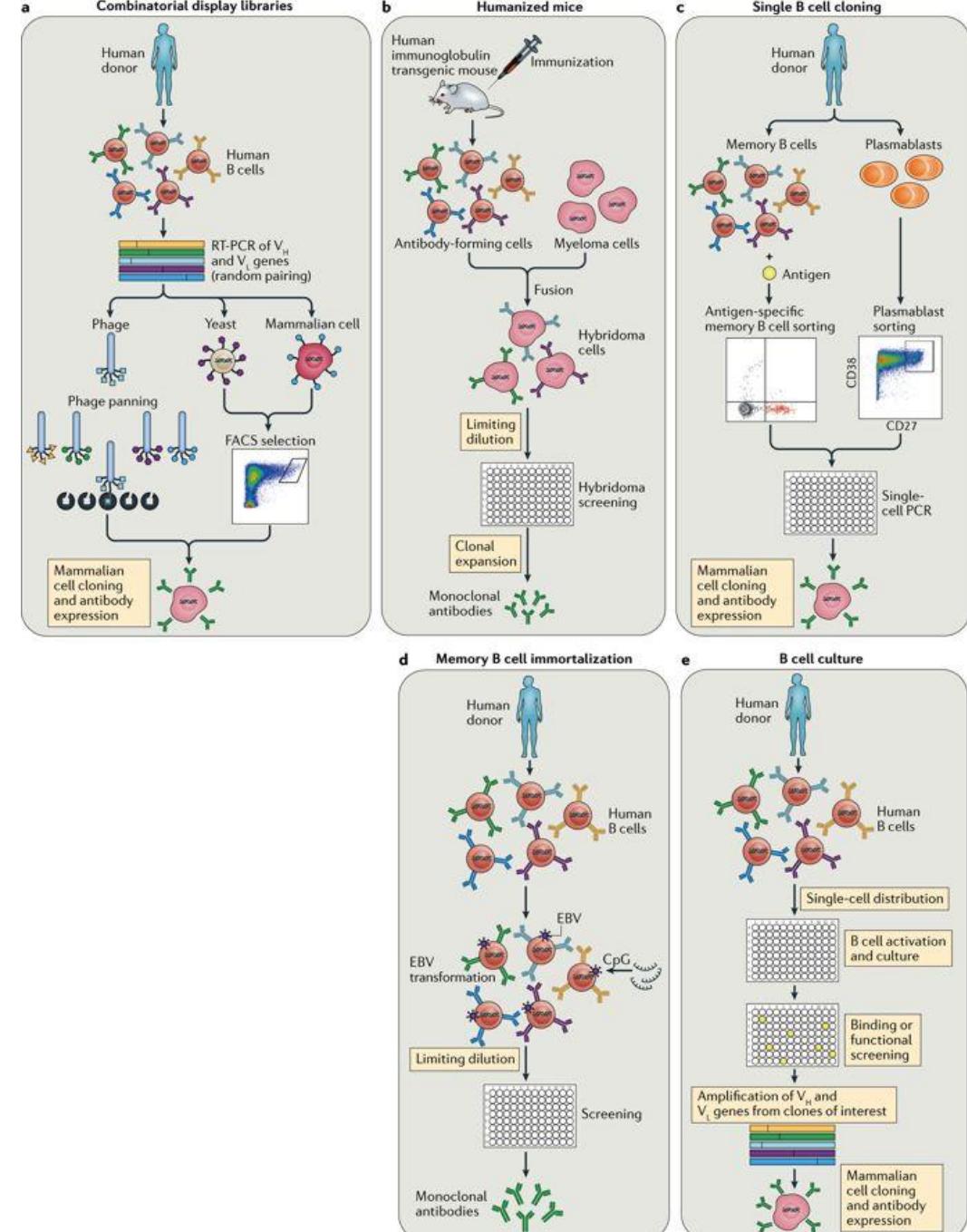
Bagaimana cara deteksi infeksi coronavirus



Gambar 5.5 Alur Pemeriksaan Spesimen 2019-nCoV

Vaksin dan kandidat vaksin

- Sampai saat ini belum ada vaksin untuk Virus Corona
- Berbagai kandidat vaksin dapat dikembangkan :
 - Passive immunotherapy
 - Active immunotherapy



Walker & Burton, 2018

- Active immunotherapy

