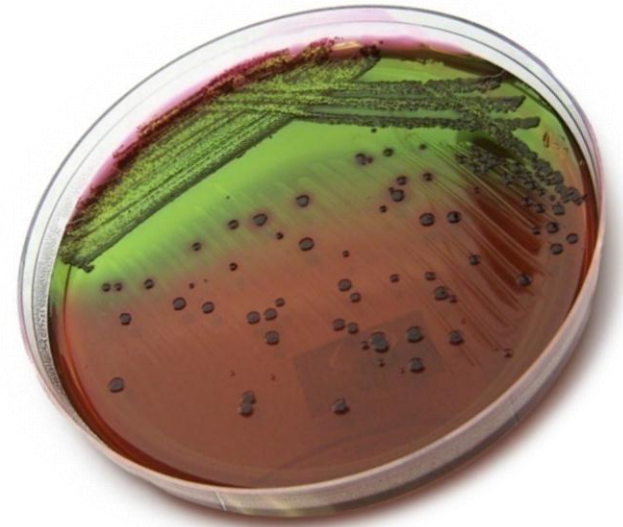




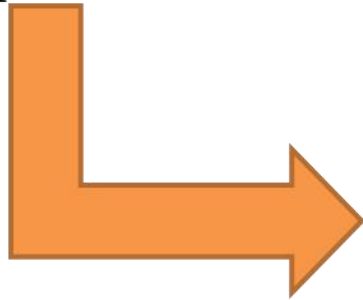
BACTERIATOR Hepatitis-B (Bacteria as Detector for anti-HBsAg Antibody)

Disusun oleh Kelompok 5

Nuruliawati Utami	21113031
Niarsi Merry Hemelda	21113010
Annisa Devi Indriani	21113032
Feraliana	21113044



Hepatitis B



suatu penyakit [hati](#) yang disebabkan oleh "Virus Hepatitis B" (VHB)

Hepatitis B :

Merasa lelah

Nyeri perut

Mual atau muntah

Demam

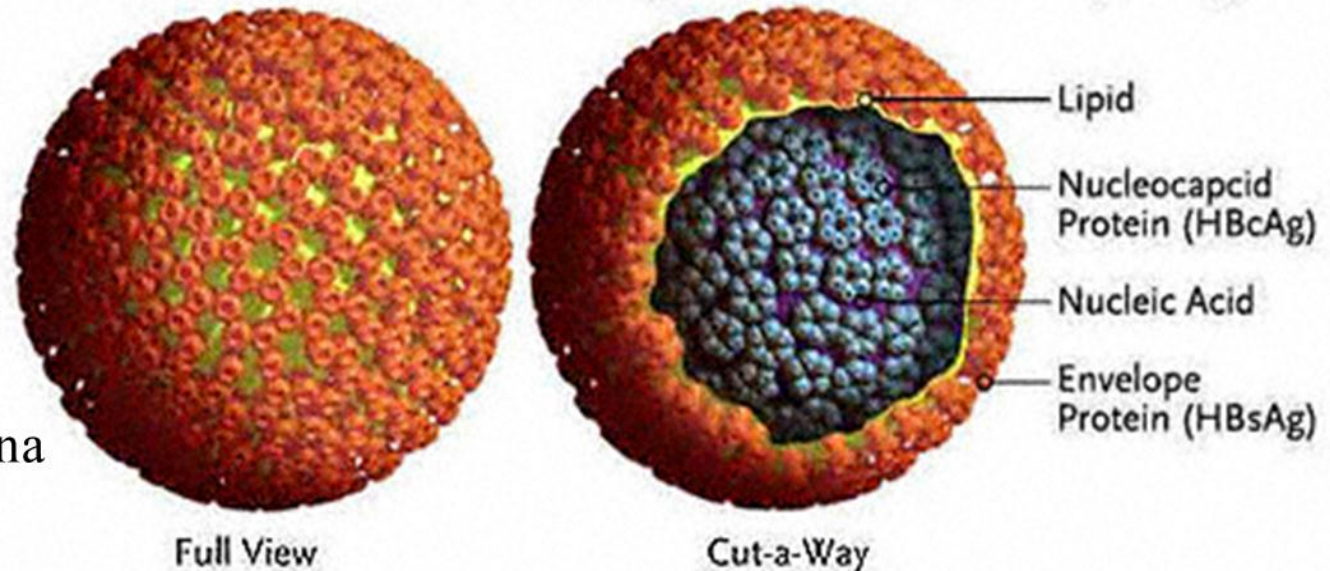
Nafsu makan hilang

Diare

Urin berwarna kuning
gelap

Mata dan kulit berwarna
kekuningan

Model of Human Hepatitis B Virus (HBV)

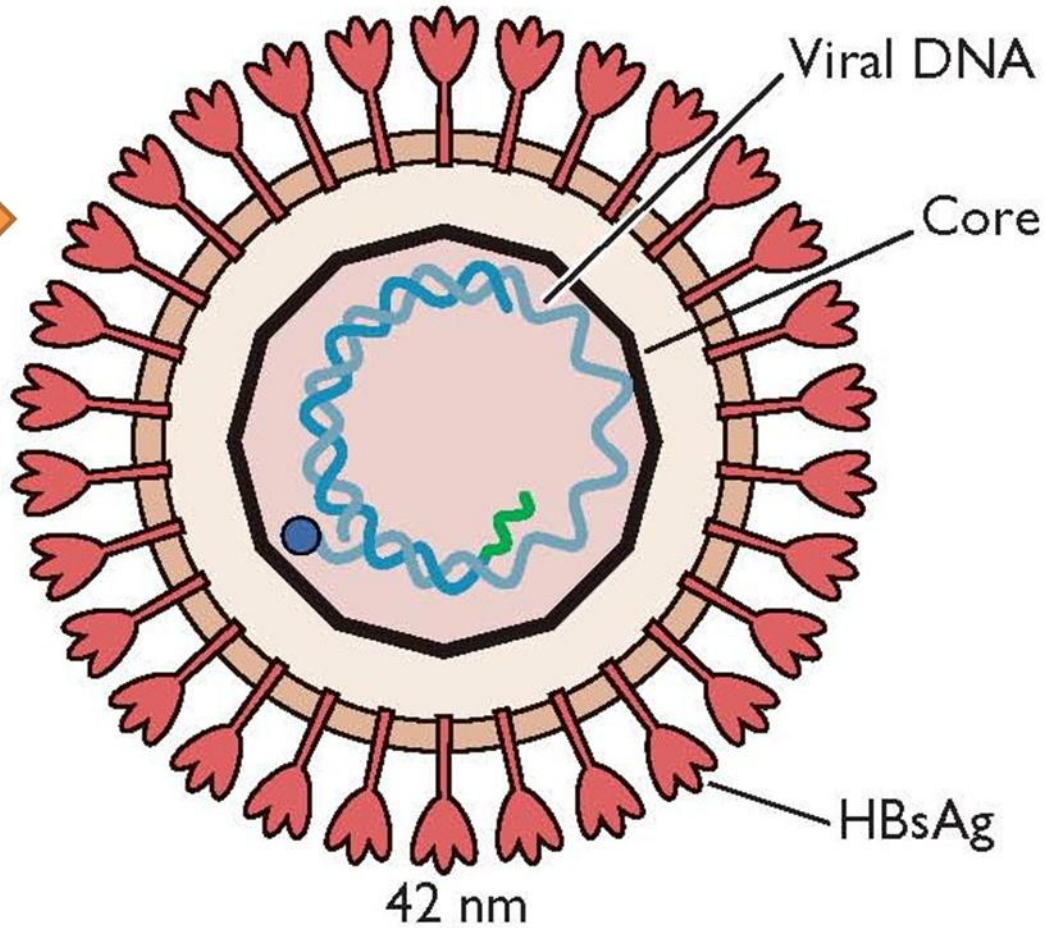
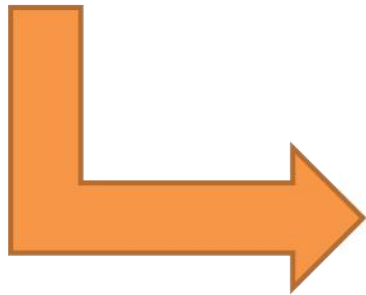


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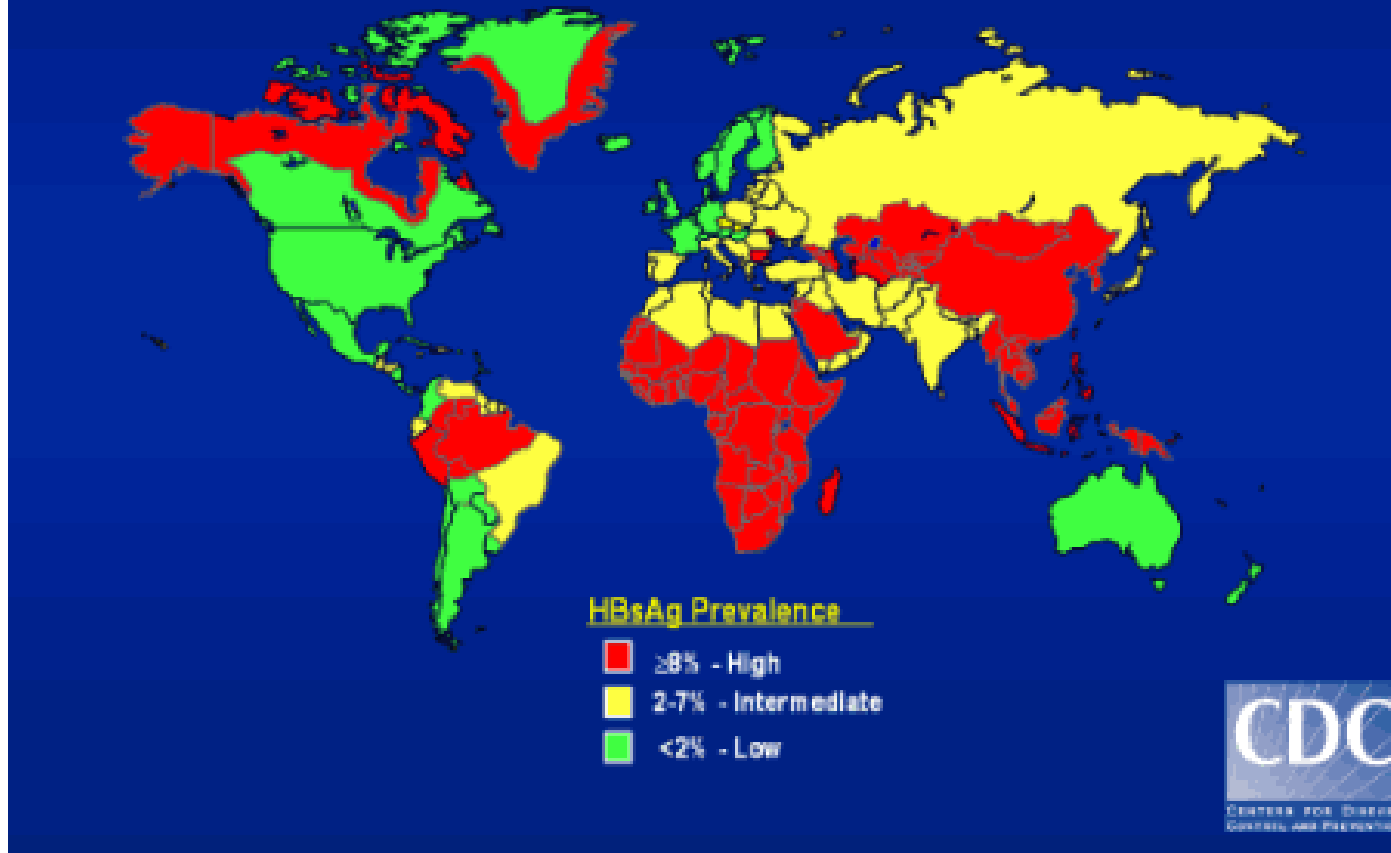
Three-dimensional model of HBV created by Louis E. Henderson, PhD, Frederick Cancer Research Center.

Hepatitis B



Mengapa Hepatitis B???

Geographic Distribution of Chronic HBV Infection



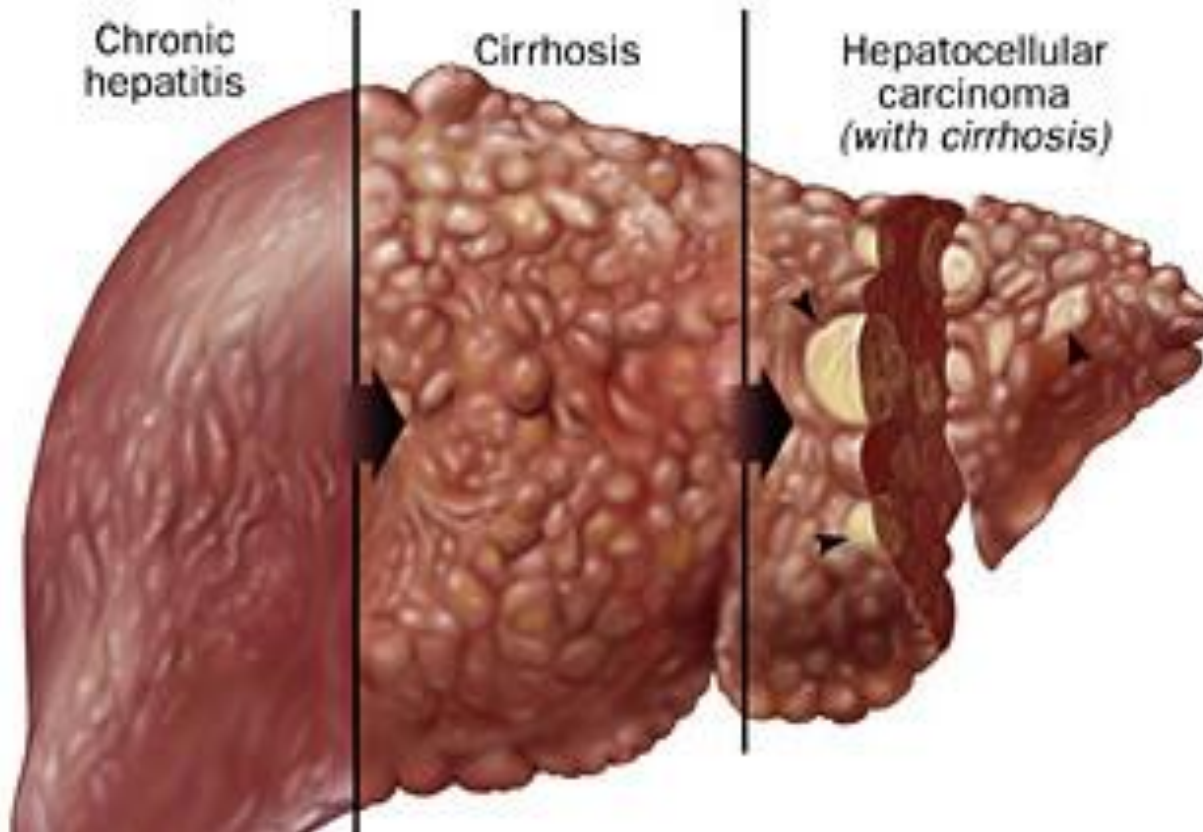
Sumber: Centers for Disease Control and Prevention

- Hepatitis B merupakan Penyakit endemik di banyak negara berkembang
- > 2 miliar orang (1/3 populasi dunia) terbukti pernah terinfeksi HBV dan > 350 juta orang terinfeksi secara kronis

Hepatitis B

- Penularan lebih mudah dibandingkan hepatitis jenis lain (A, C, D).
- Dapat menular melalui kontak dengan darah yang terinfeksi, semen, dan cairan tubuh penderita → melalui:
 - Transfusi darah
 - Kehamilan, ibu pada janin
 - Hubungan seksual
 - Penggunaan jarum suntik bersama

HBV Disease progression





Vaksin



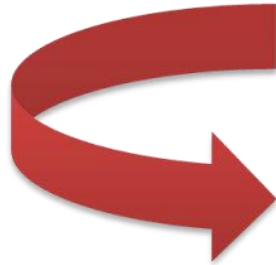
Kit



Diagnostic



Mahal

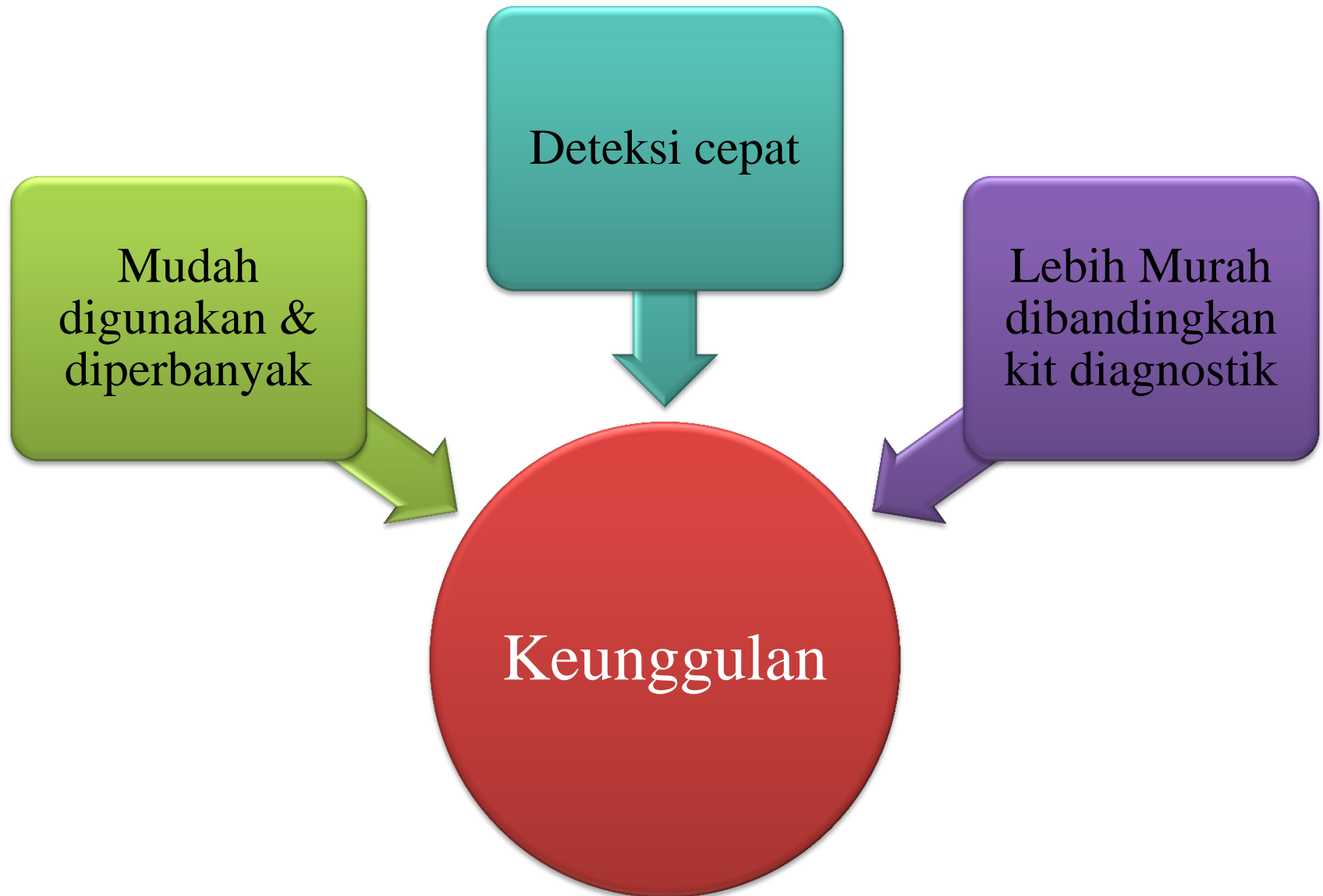


Solusi????

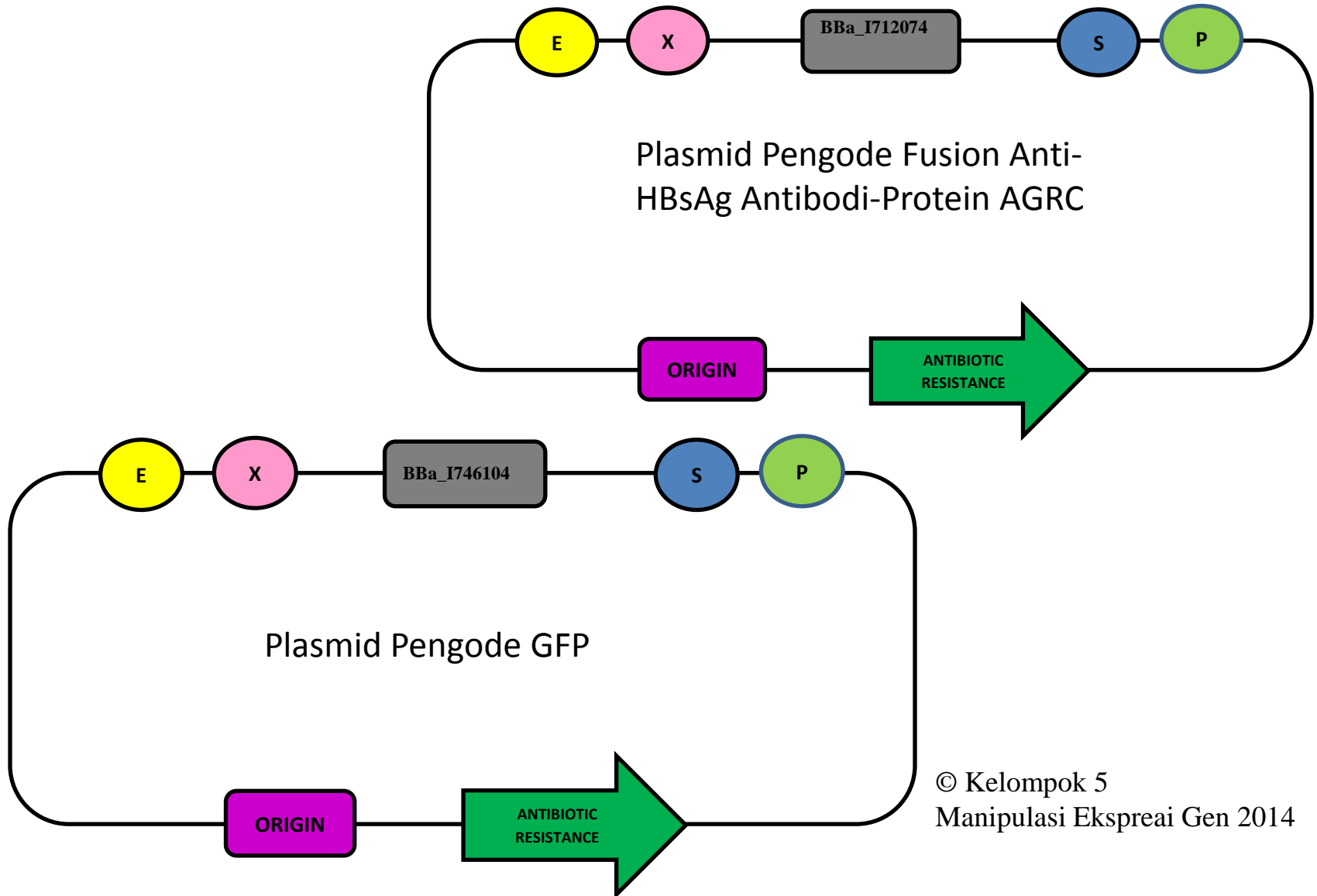


BACTERIATOR
Hepatitis-B

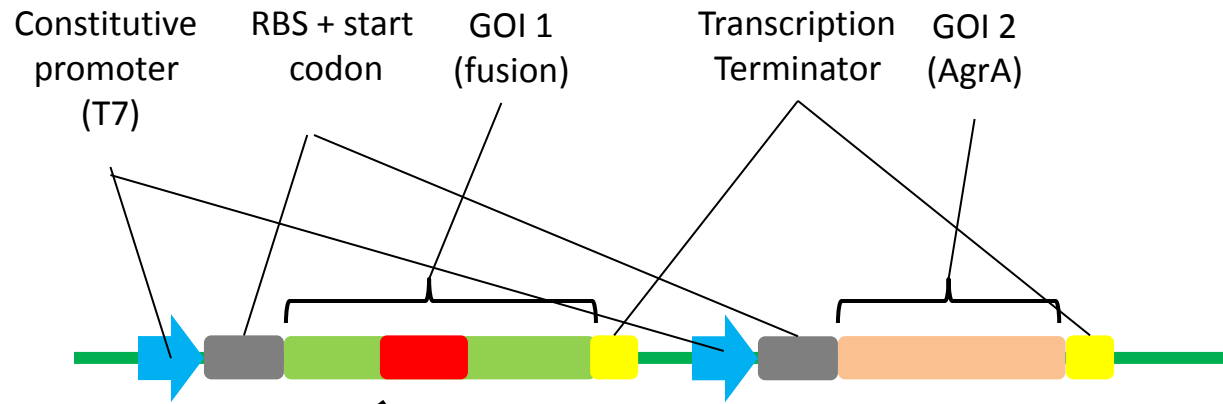
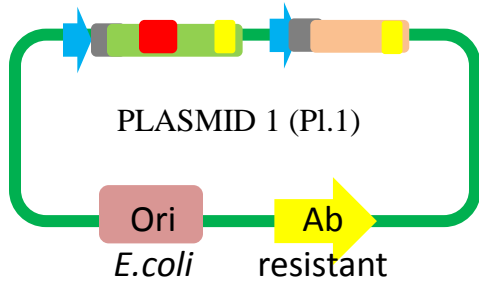
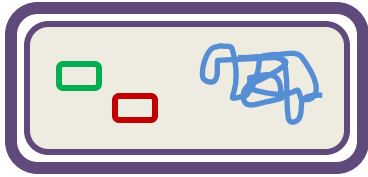




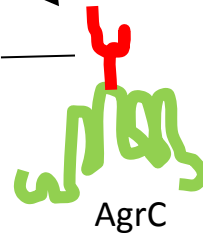
Construct Plasmid Biobrick



E. coli

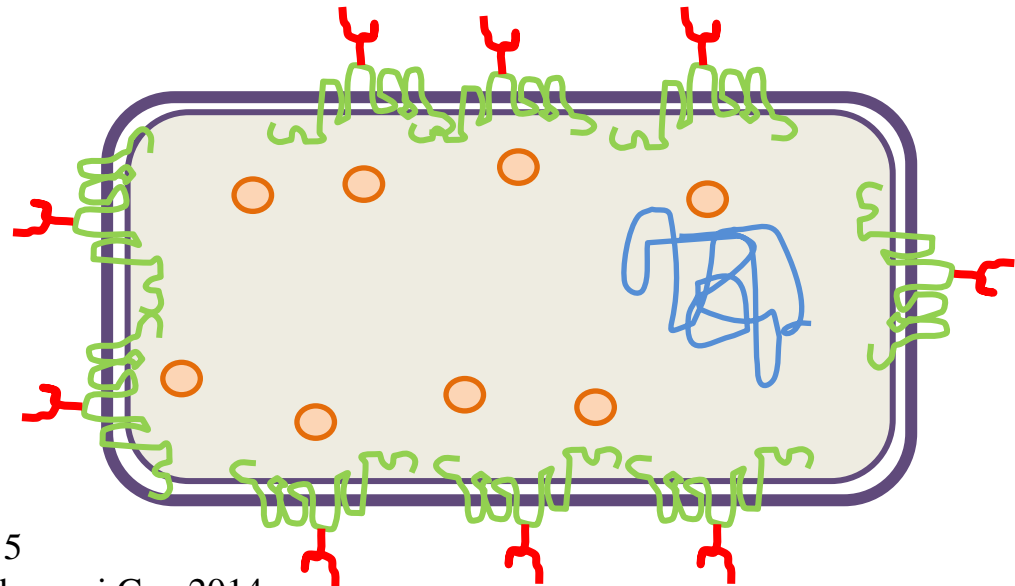
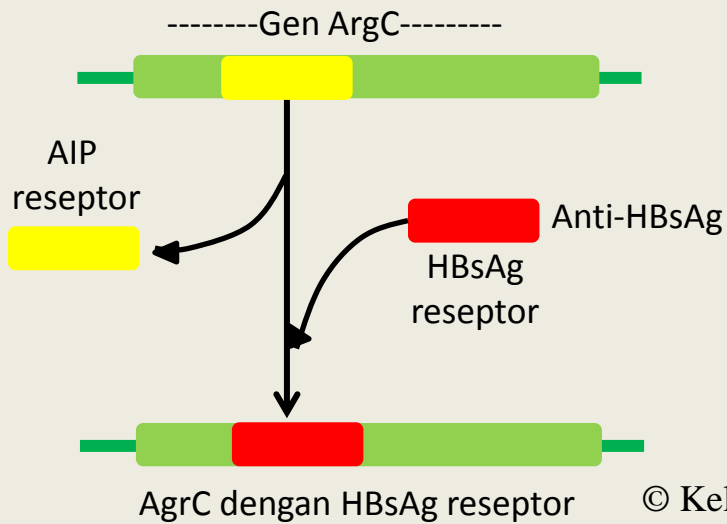


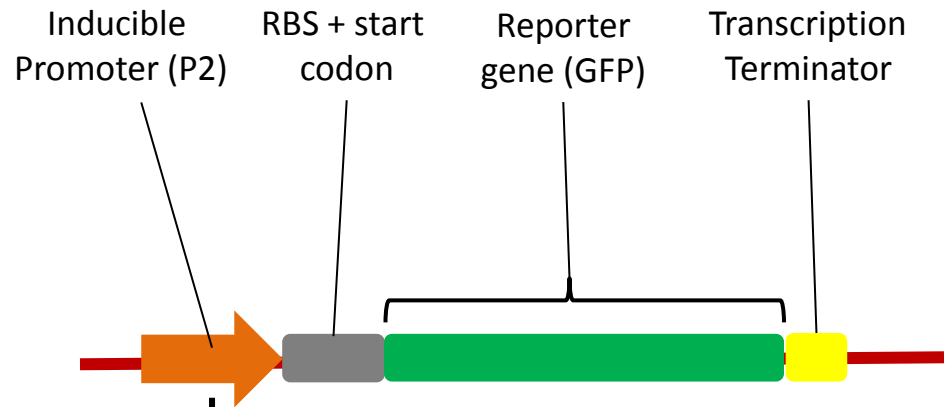
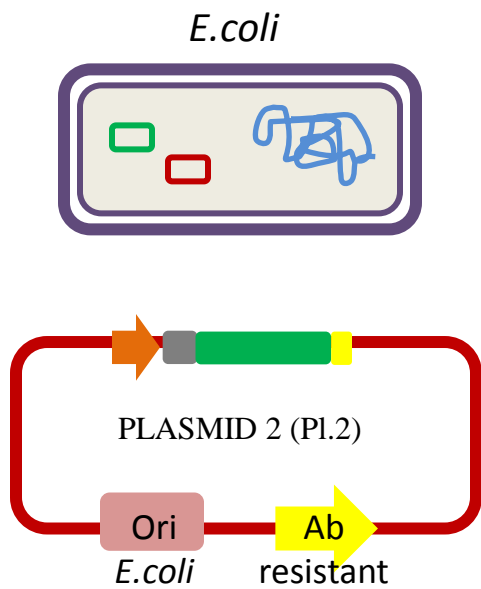
Reseptor HBsAg dari anti-HBsAg



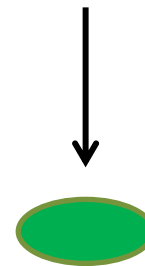
AgrA

Gen of interest 1 (GOI 1)



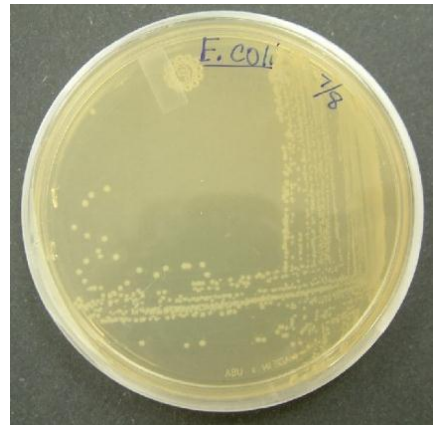
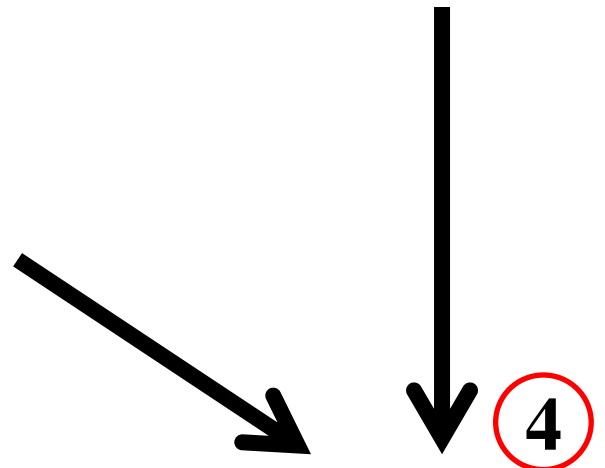
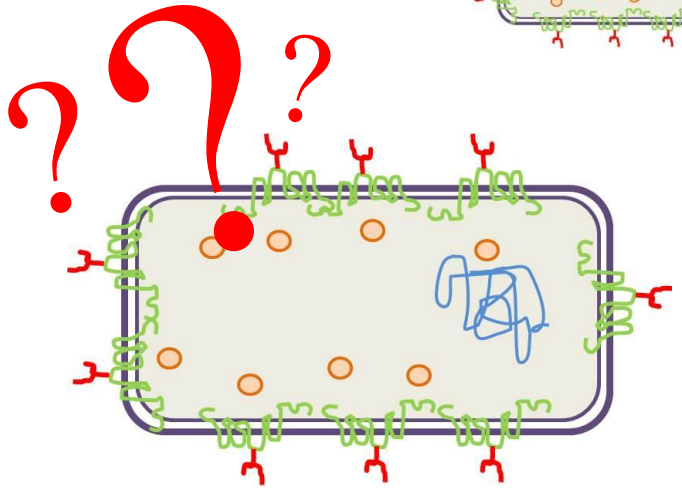
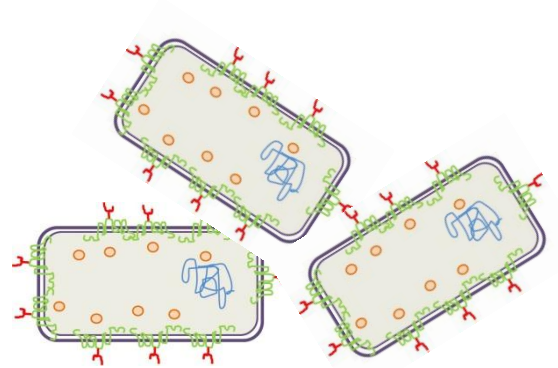
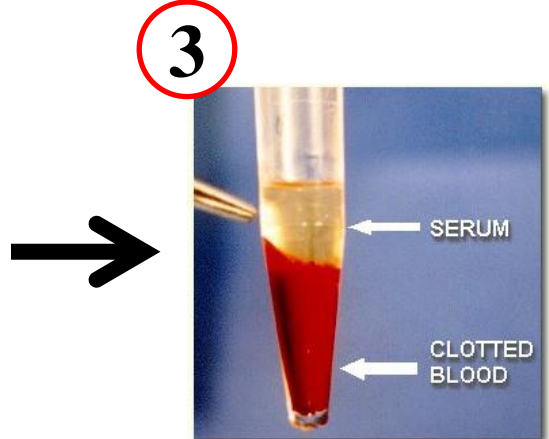


Berasal dari *Staphylococcus aureus*.
Diinduksi oleh AgrA.



Green fluorescent protein

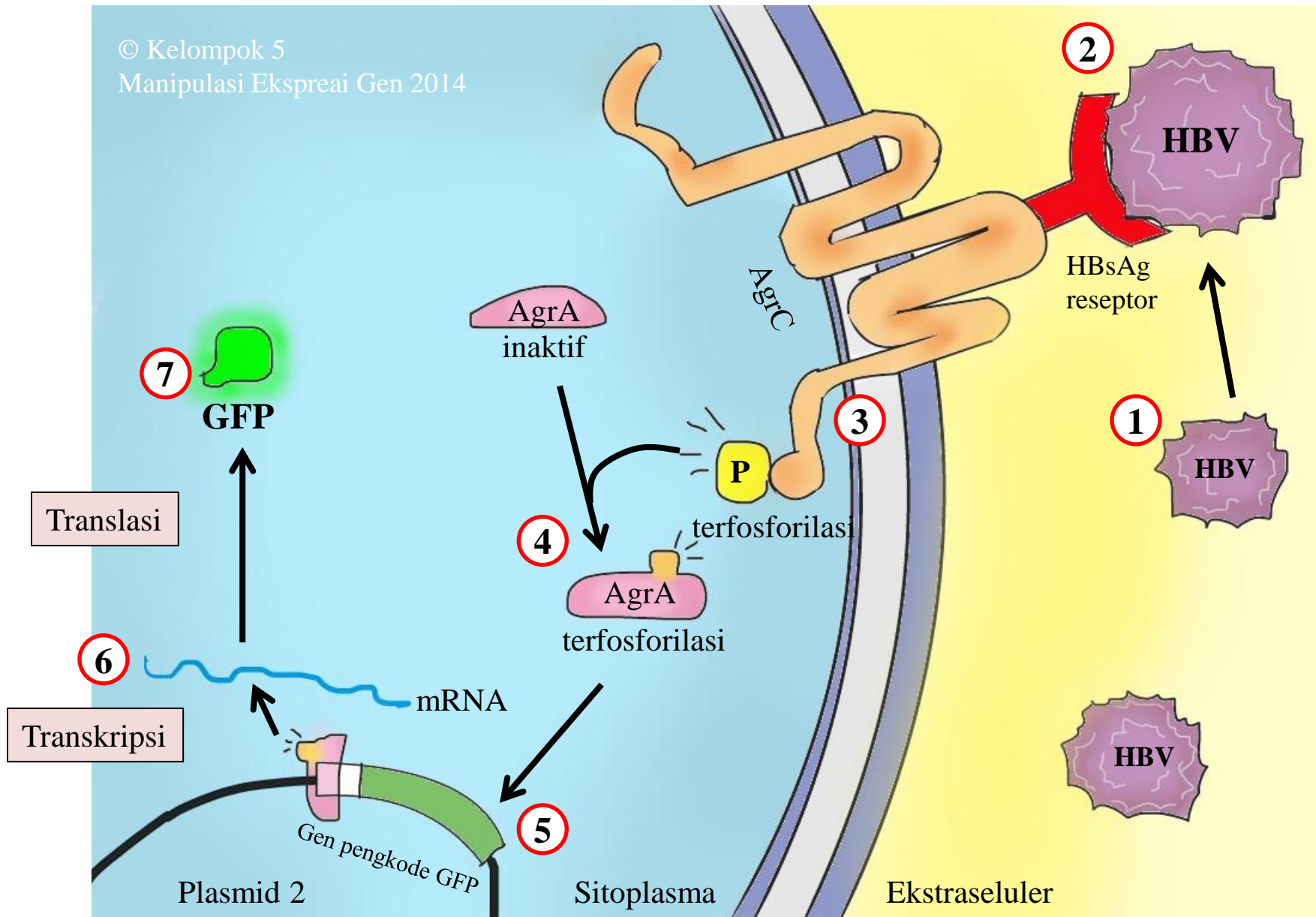
**Bagaimana
mekanismenya?**



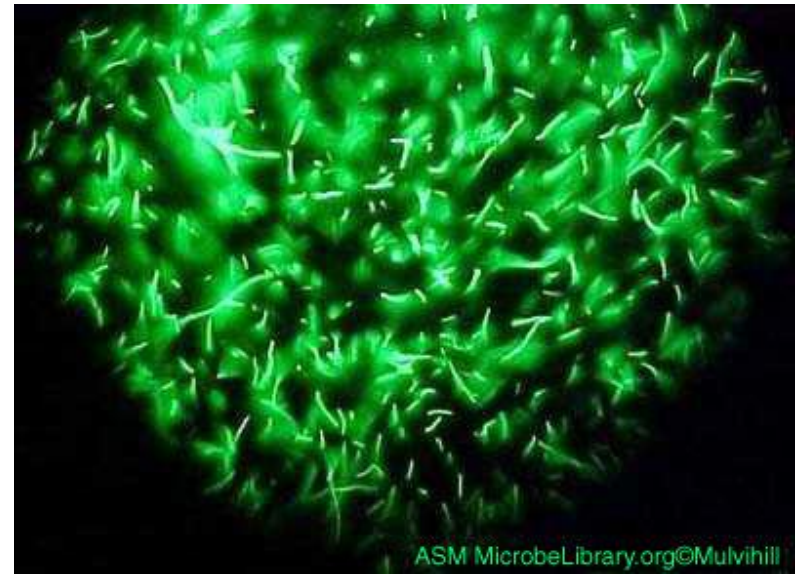
Apa yang terjadi di dalam *E.coli*?

MEKANISME YANG TERJADI:

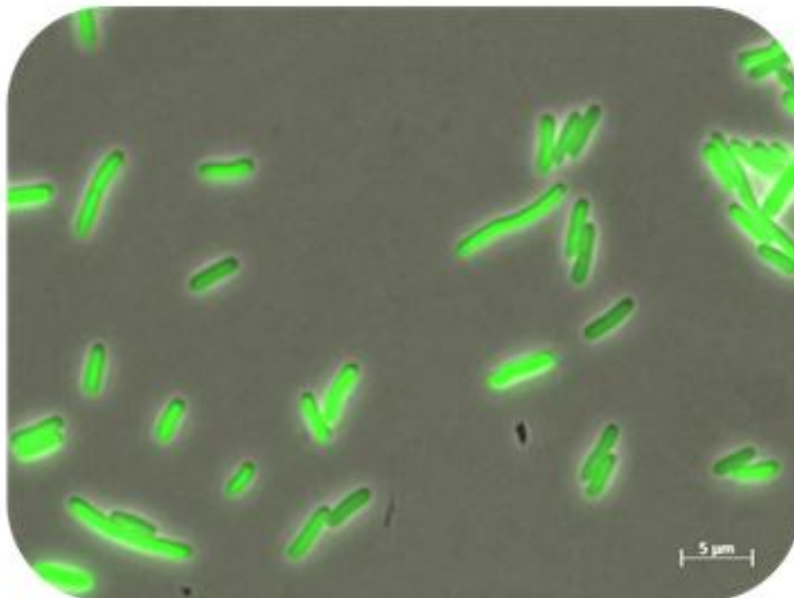
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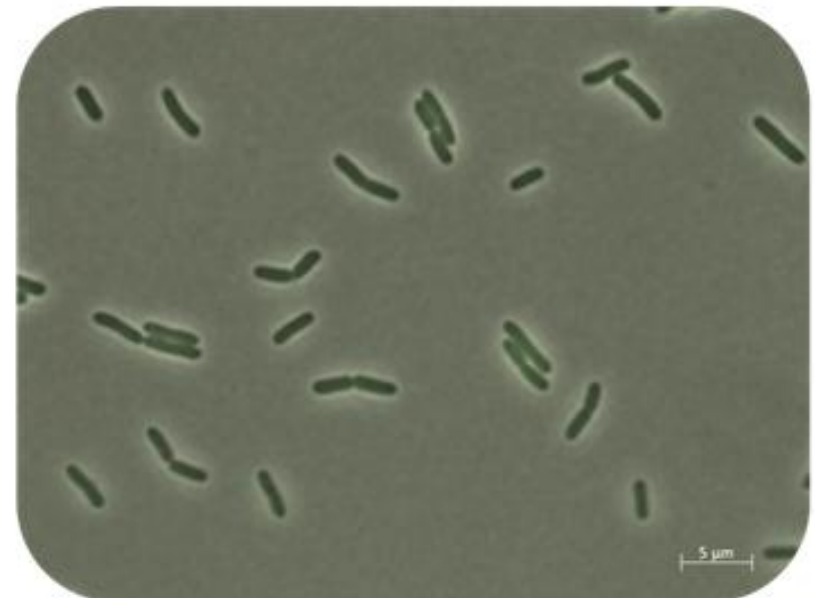
5



**Terdeteksi HBsAg
(Positif Hepatitis B)**



**Tidak terdeteksi HBsAg
(Negatif Hepatitis B)**





hepatitis

TERIMA KASIH