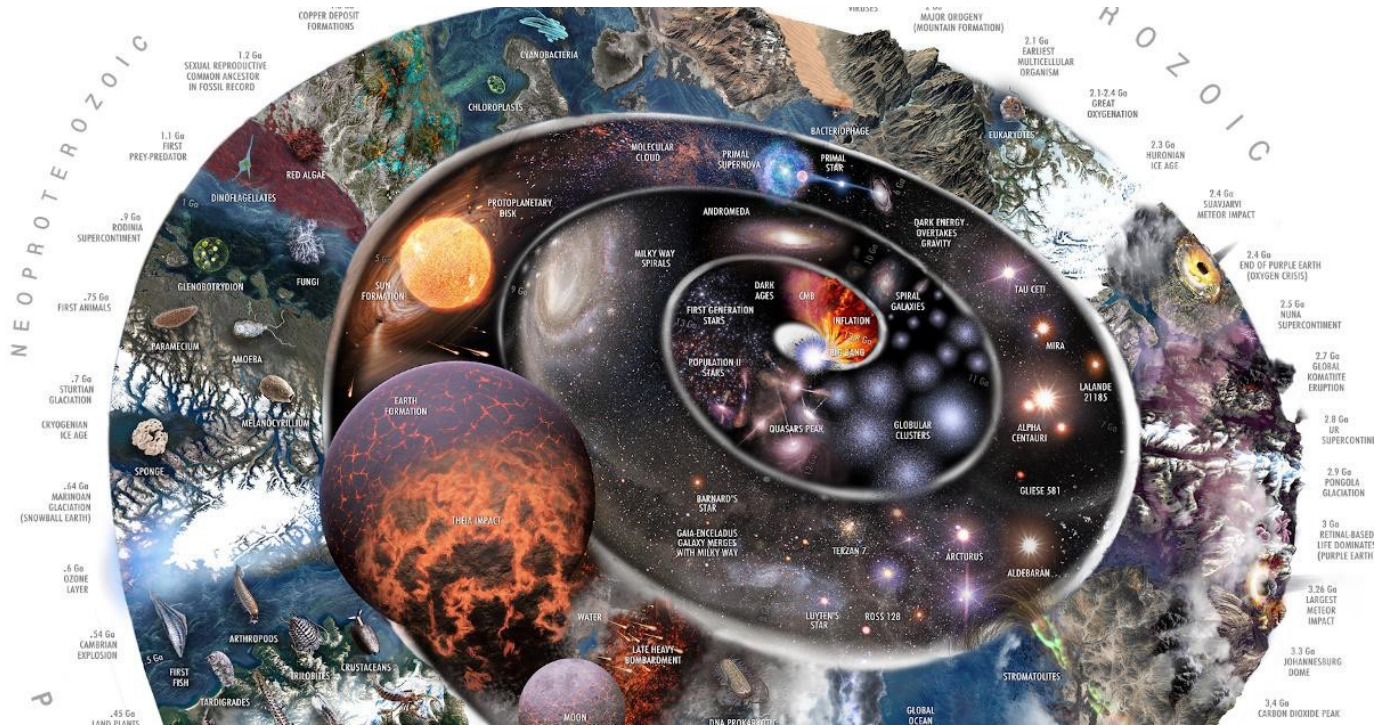


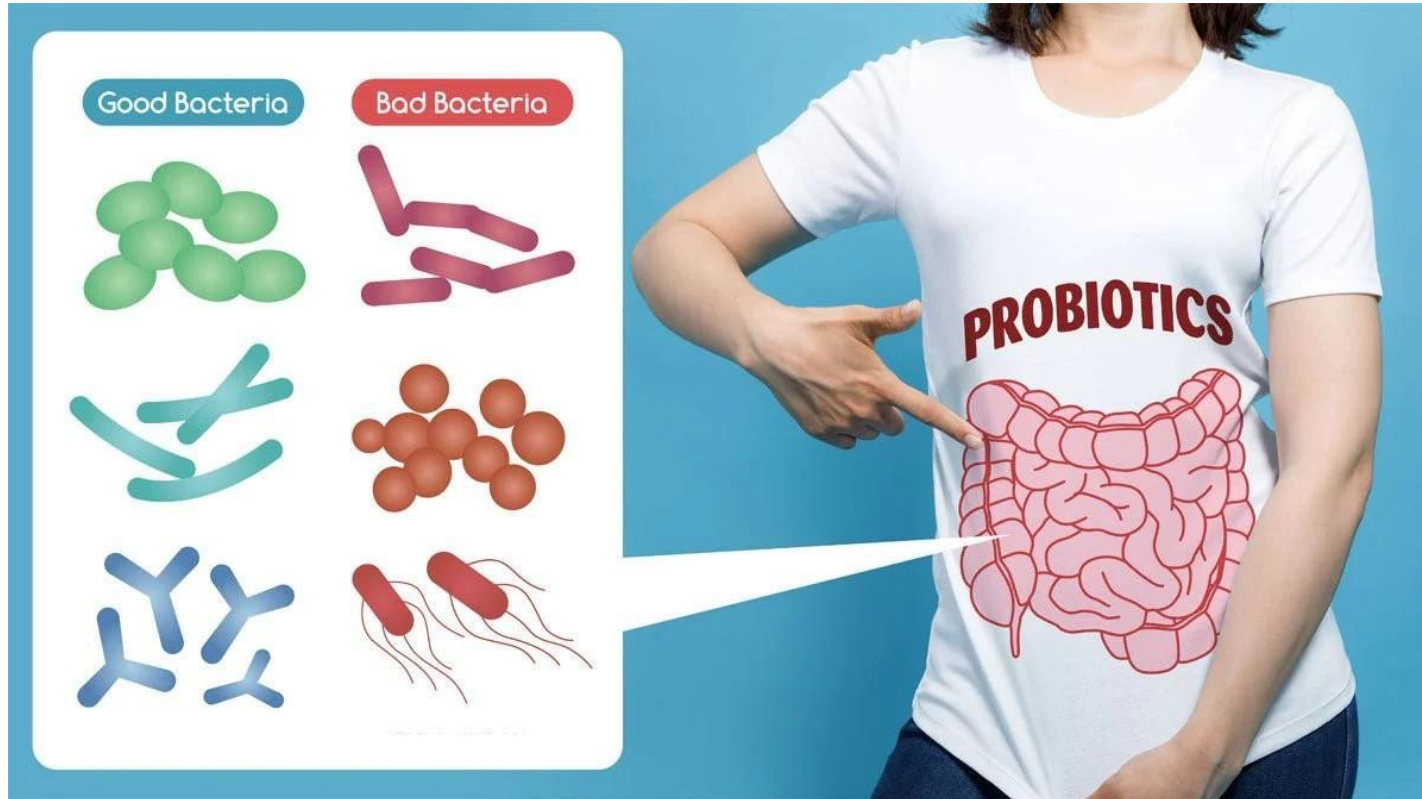
Bakterije su bile prvi stanovnici naše planete. I danas su tu...



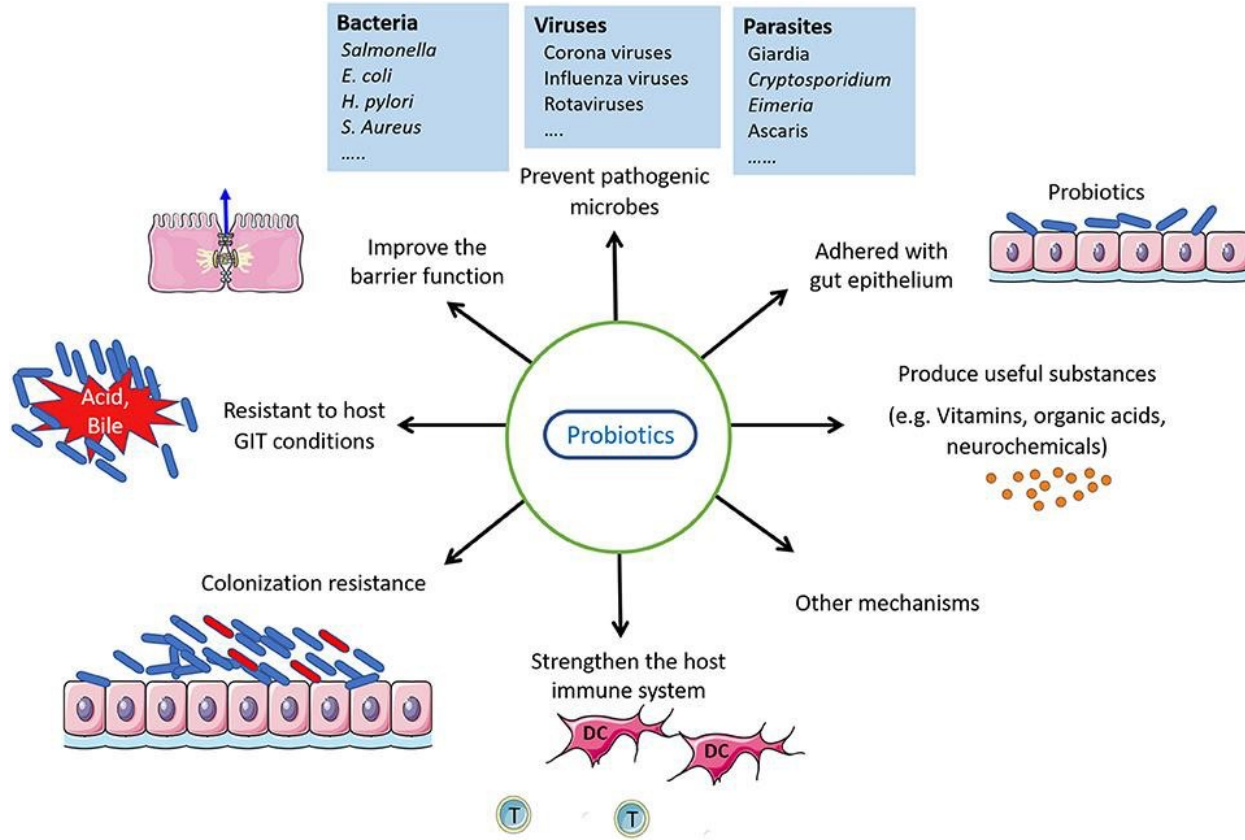
Bakterije su ključne za protok materije na našoj planeti



Bakterije su ključne za održavanje dobrog zdravlja



Procesi na koje utiču bakterije u našem organizmu





IBU

International
Burch
University

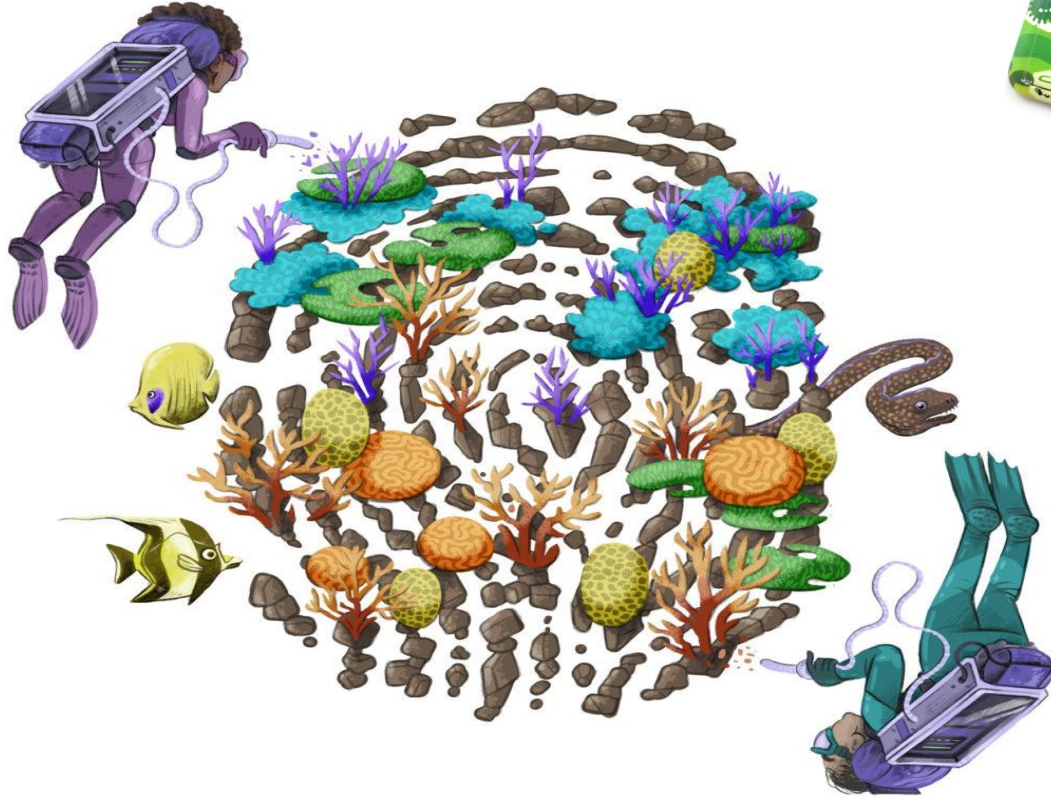
Antibiotici i mikrosvijet

v.prof. Monia Avdić

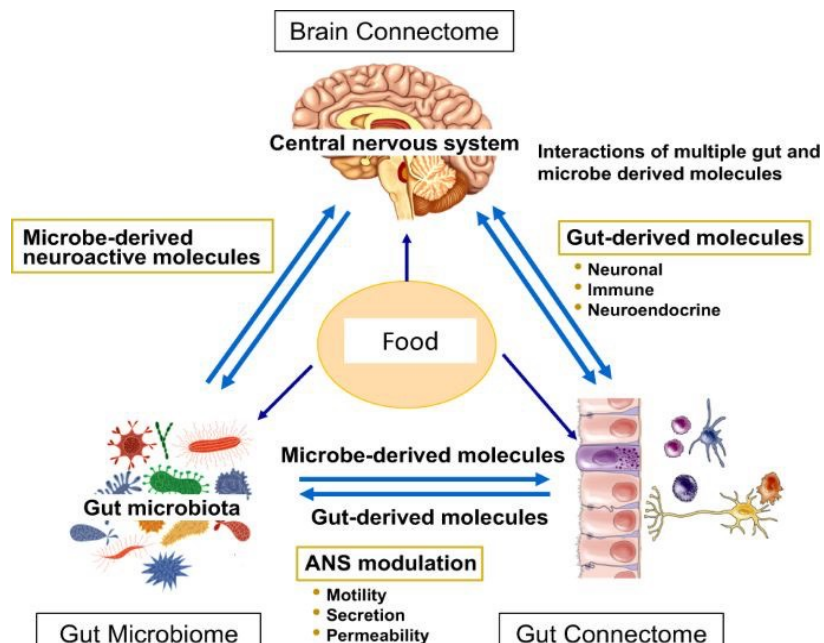
Mi smo 10% ljudi, 90% bakterije

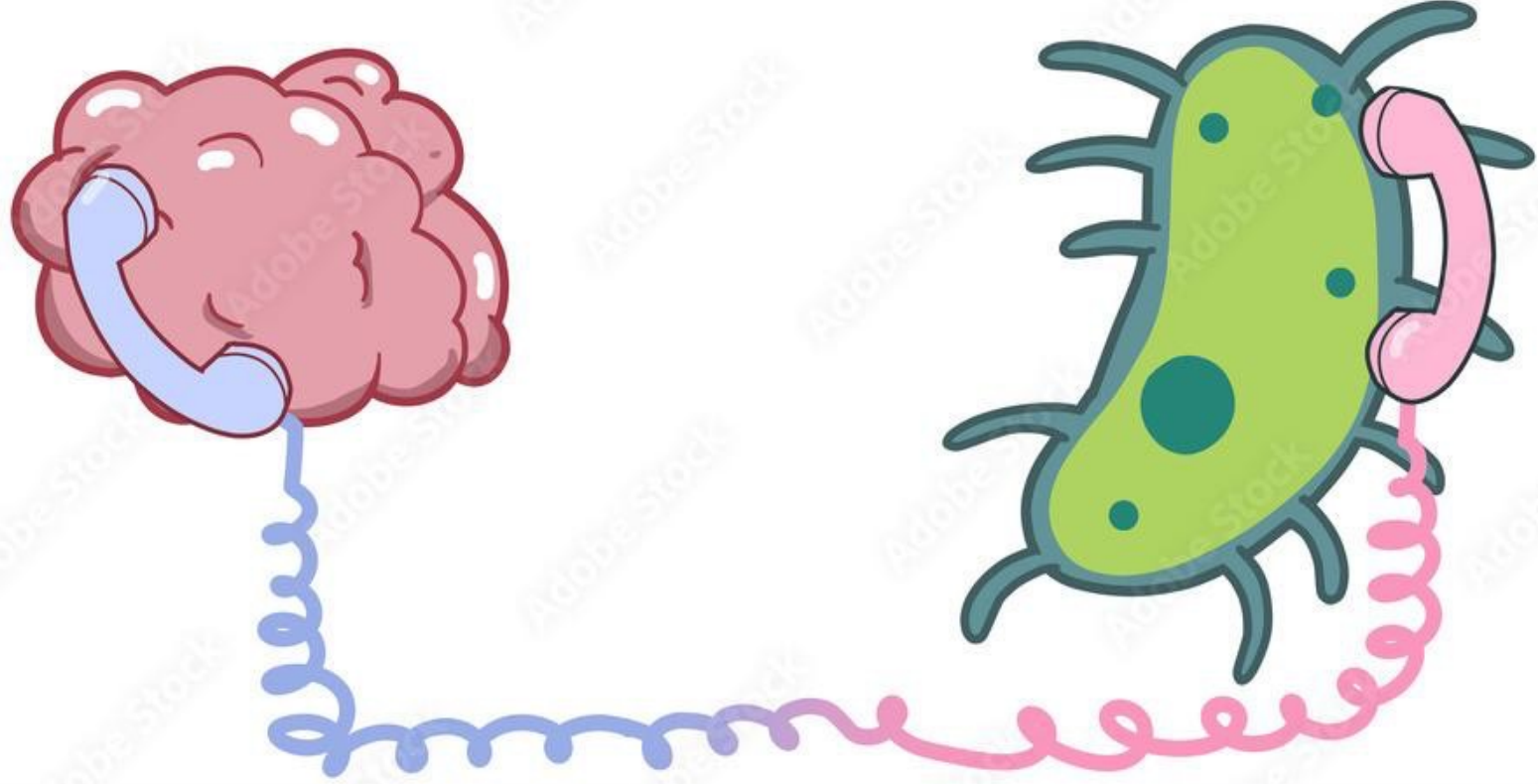


Microbial fingerprint



Naš genetički materijal nasljeđujemo, a to je samo 10%. Na ostalih 90%, utičemo našim načinom života.

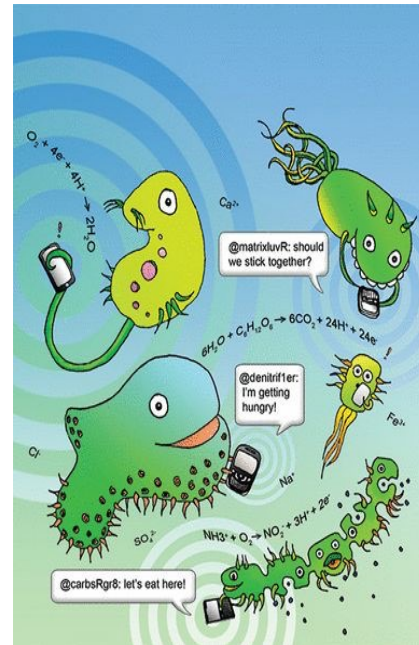
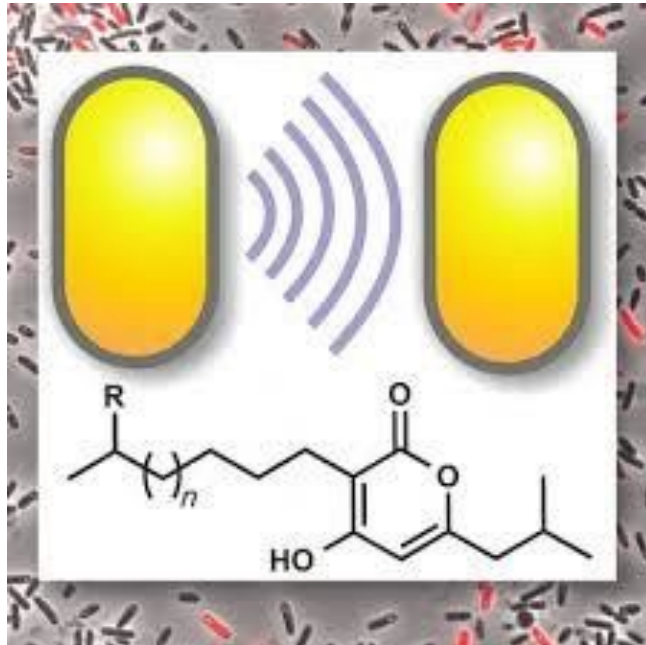




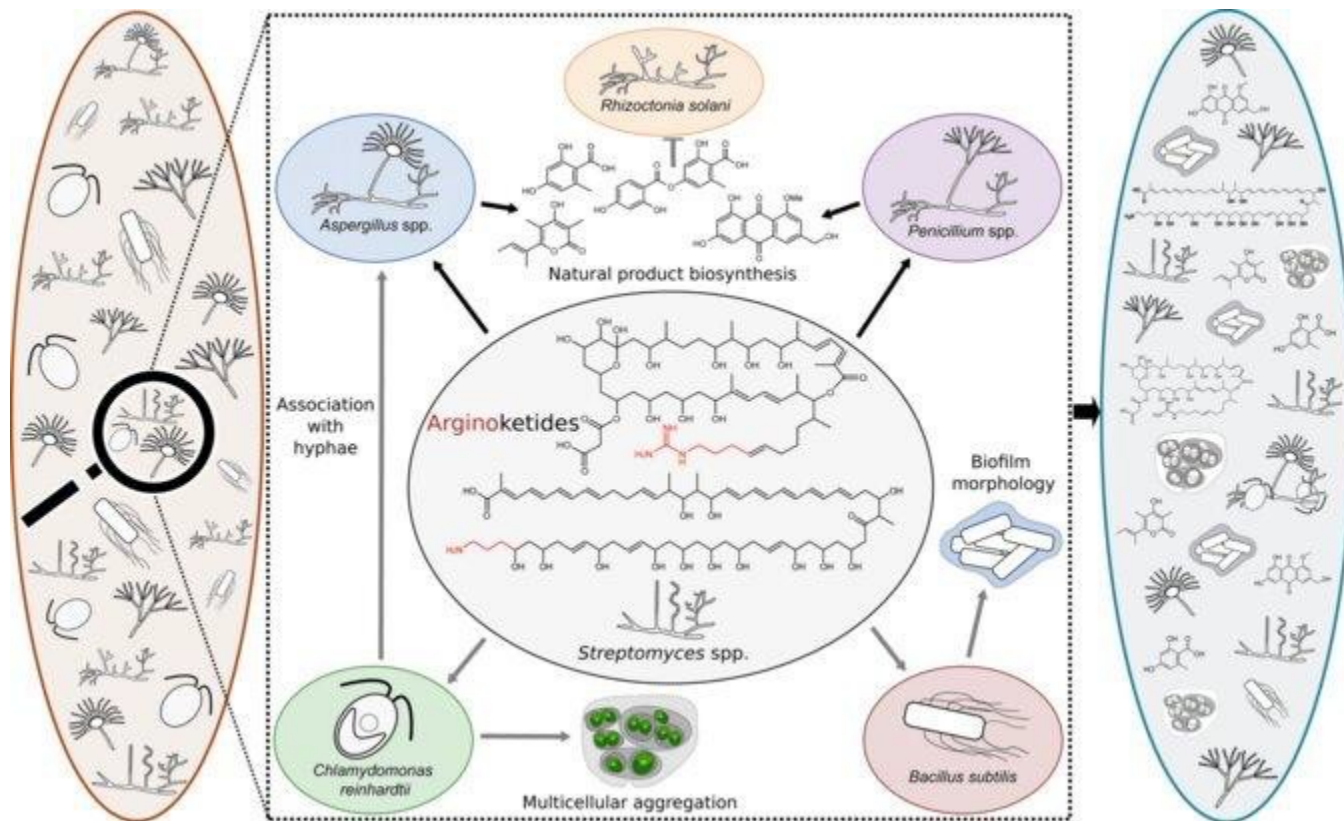
Hawajska lignja



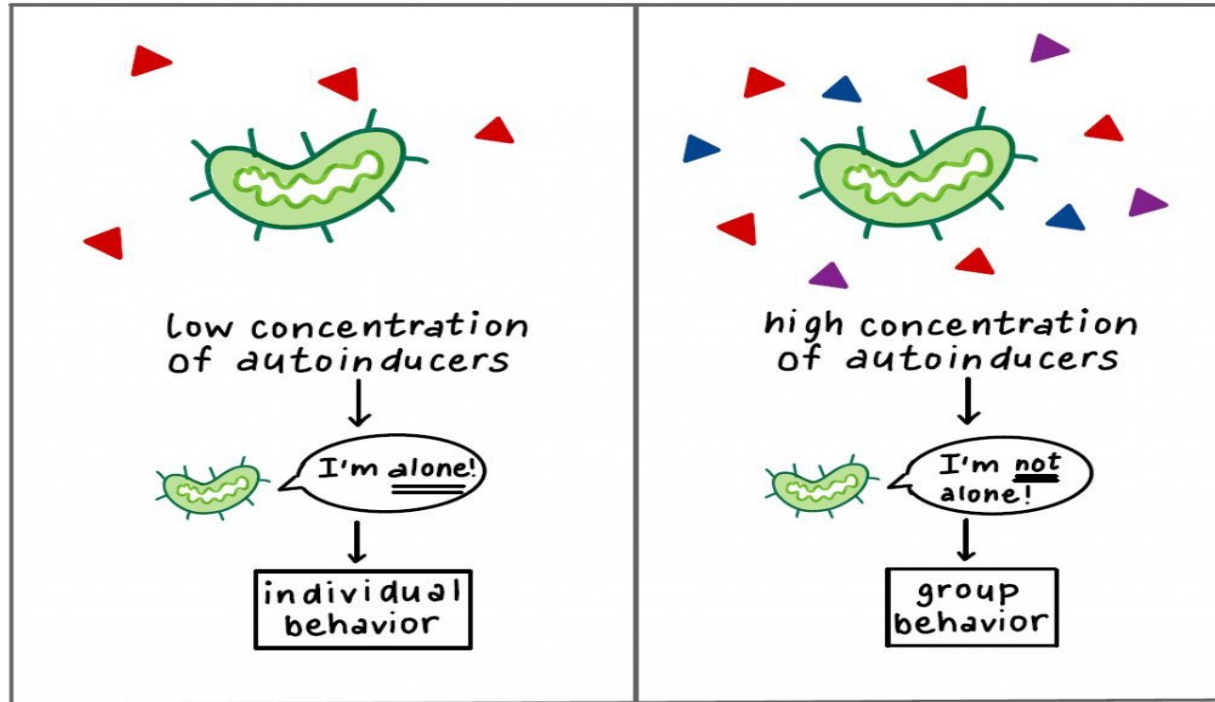
Bakterije vole da se druže...PROMJENA PARADIGME



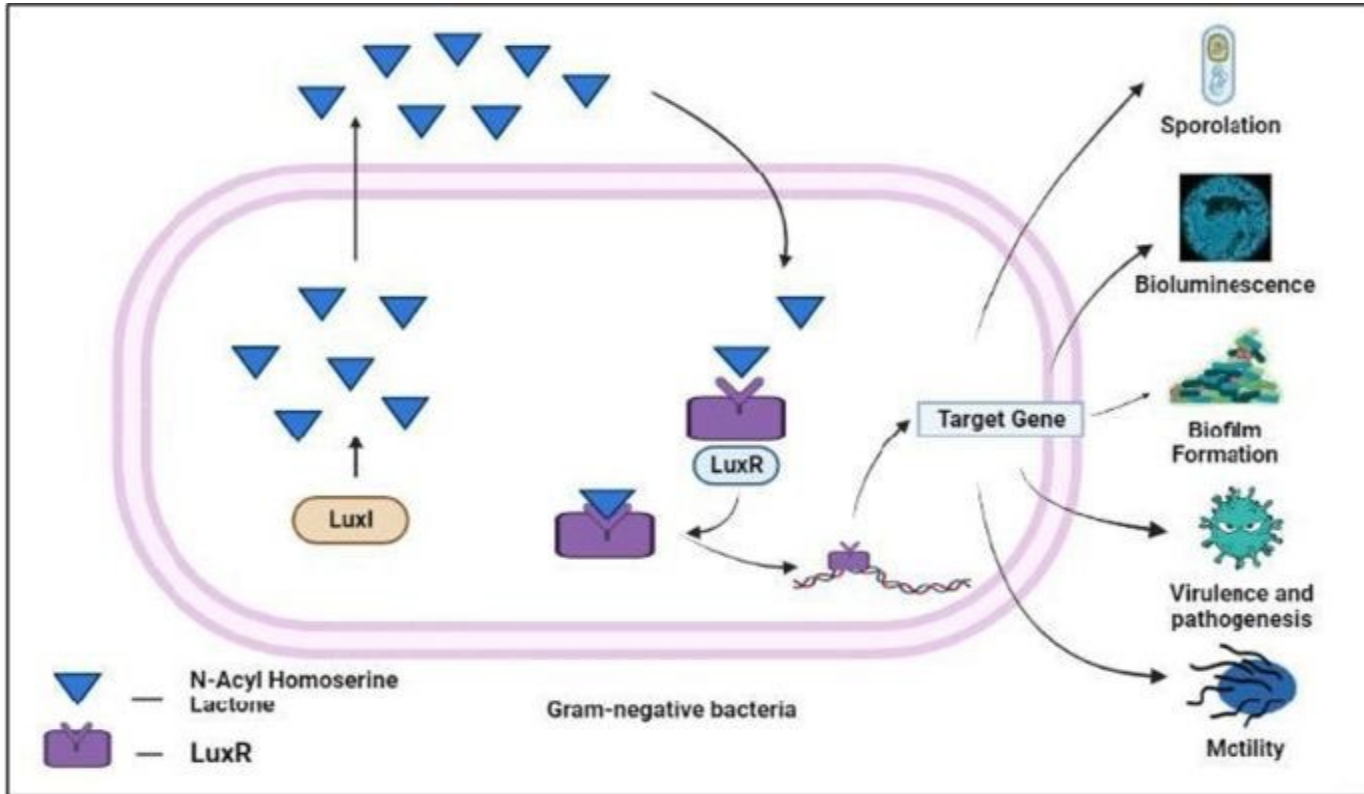
Šta mogu biti signalne molekule?



Bakterijska komunikacija - quorum sensing

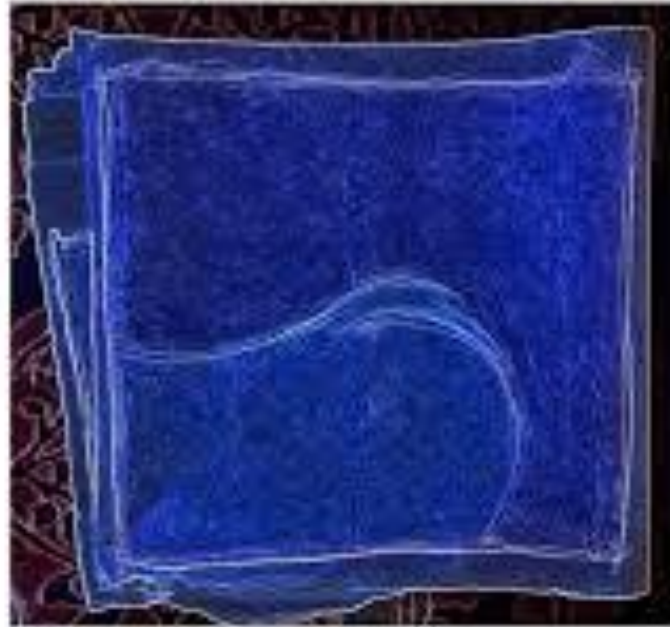


Kako funkcionišu signalne molekule?



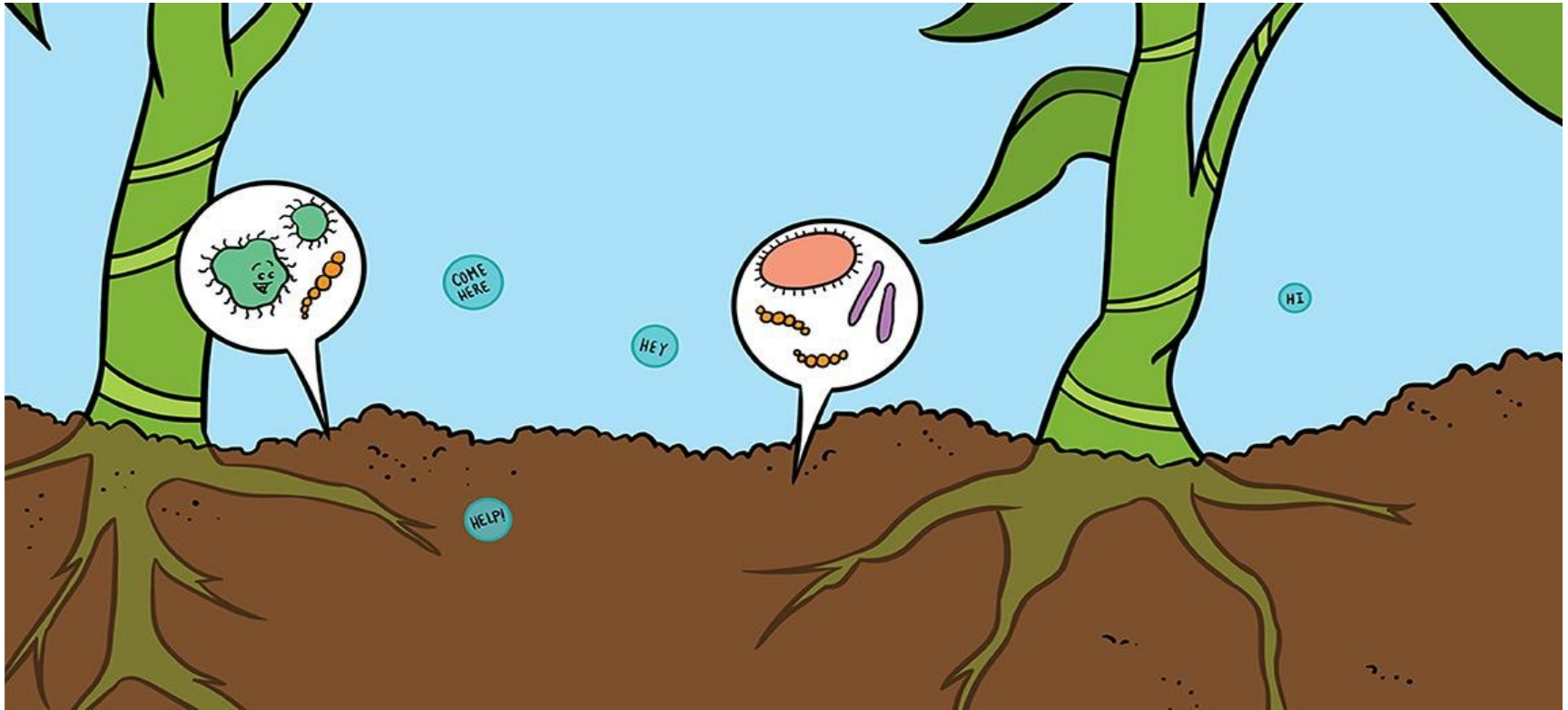
Da li mi onim što konzumiramo utičemo na bakterijsku komunikaciju?

What if everything
depends on everything
else?



marginofteach.com, unedited sketch.

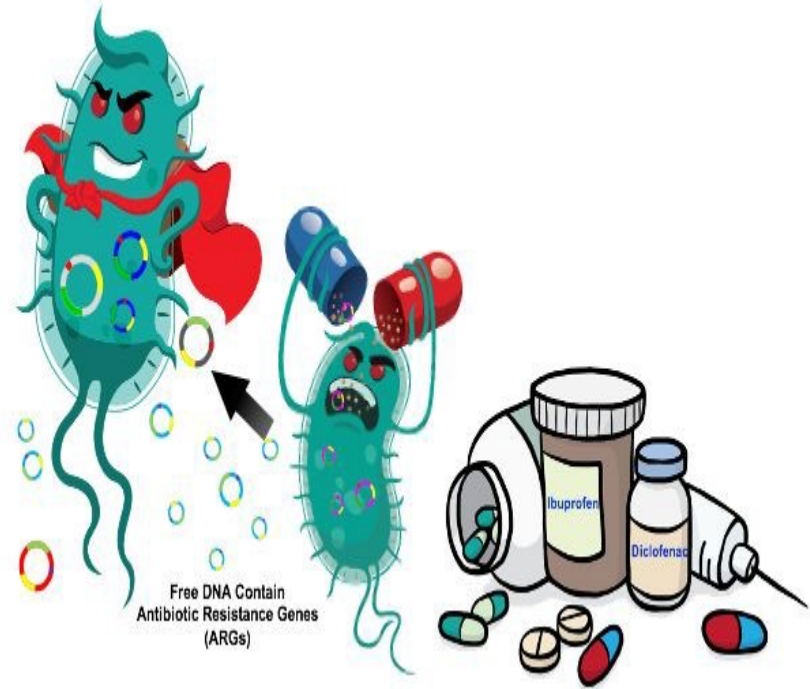
Antibiotici kao inicijalne komunikacijske molekule u tlu



First antibiotic discovery



Antibiotic resistance



+ horizontalni genski transfer

+ signale molekule i quorum sensing

+ uticaj na mikrobiom

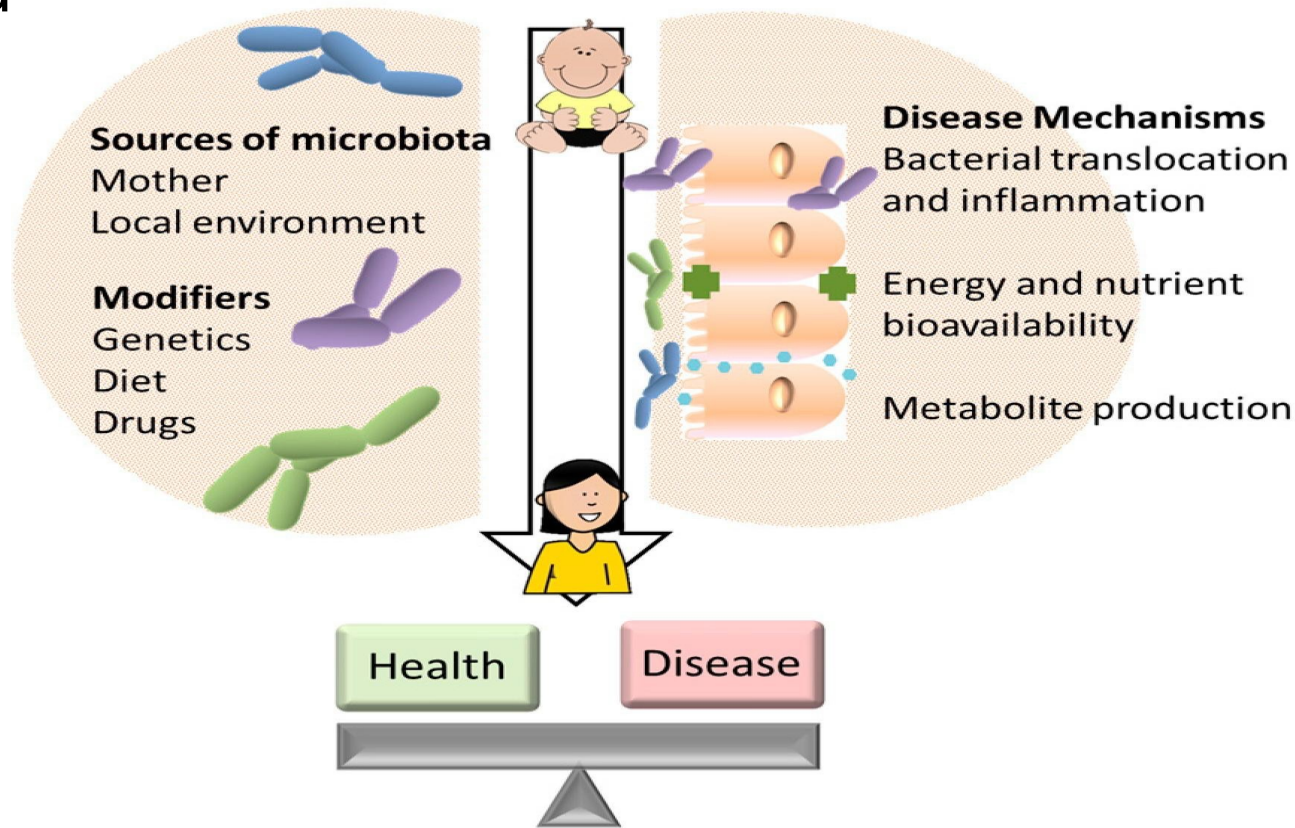
+sta sve moze aktivirati virulenciju i
pojacati horizontalni genstki
transfer



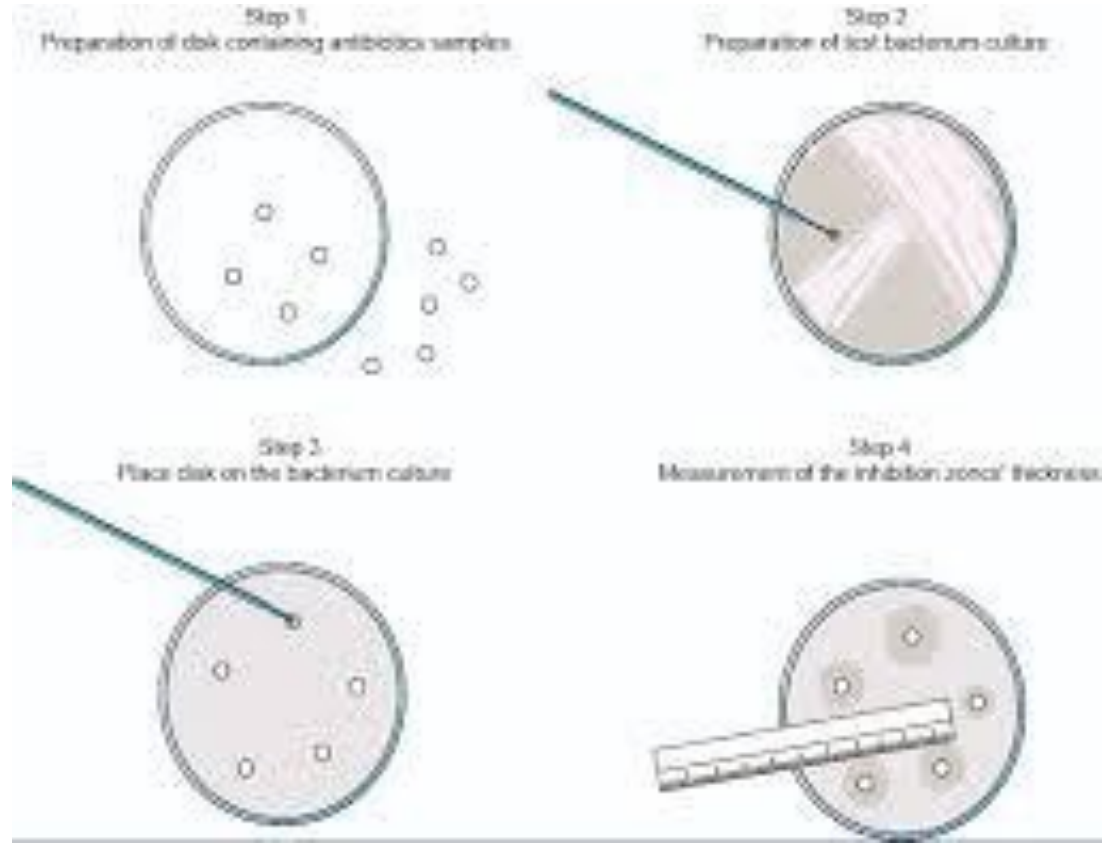
Podići svijest o racionalnoj upotrebi antibiotika pogotovo imajući na umu da oni mogu biti signalne molekule



Uništavanjem mikrobiote doprinosimo još većem problemu



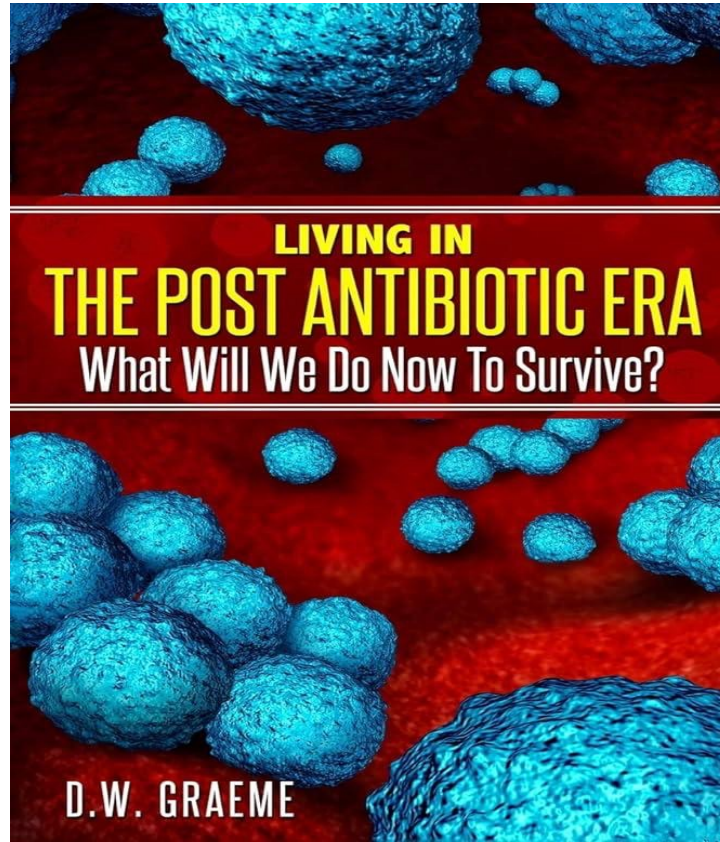
Kako biti siguran da antibiotik djeluje?



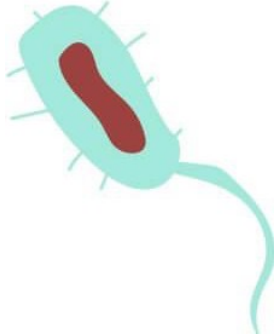
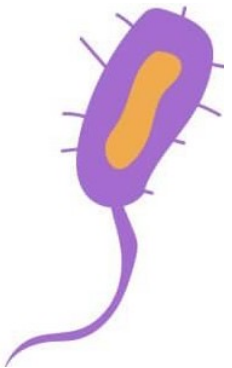
Resursi za učenike

https://learn.chm.msu.edu/vibl/vibl/KirbyBauer/KirbyBauer_HTML5Canvas.html

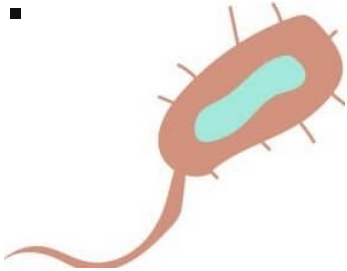
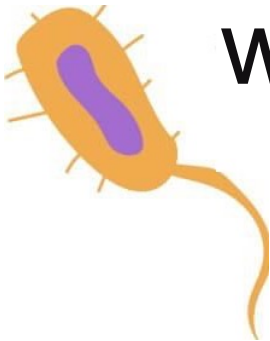
Zašto je ovo od velikog značaja za biosigurnost?



Hvala na pažnji



"Always trust a
microbiologist, because
they have the best
chance of predicting
when the world will end."



- Teddie O. Rahube