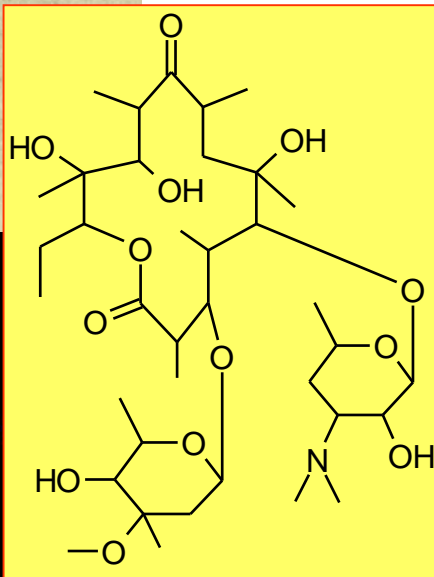
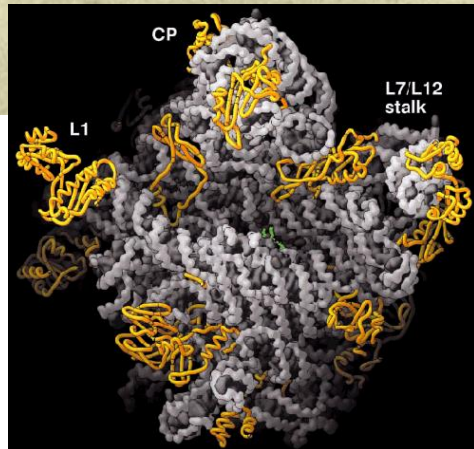
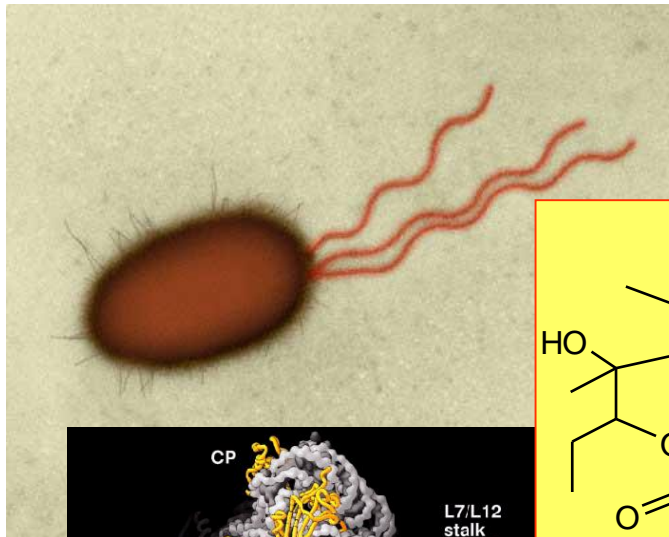


Antibiootikumid, inimene ja loom



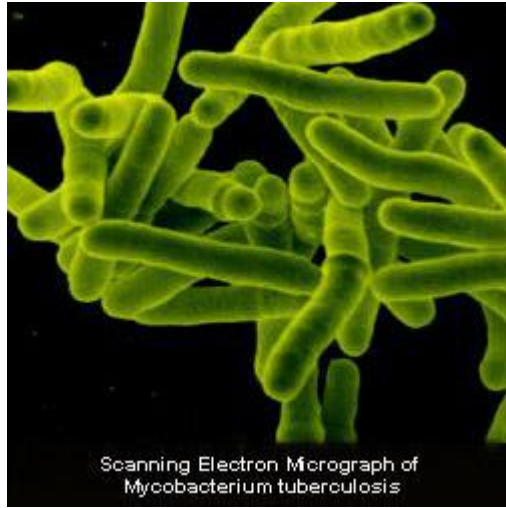
Euroopa Maaelu Arengu
Põllumajandusfond:
Euroopa investeringud
maapiirkondadesse

Tanel Tenson

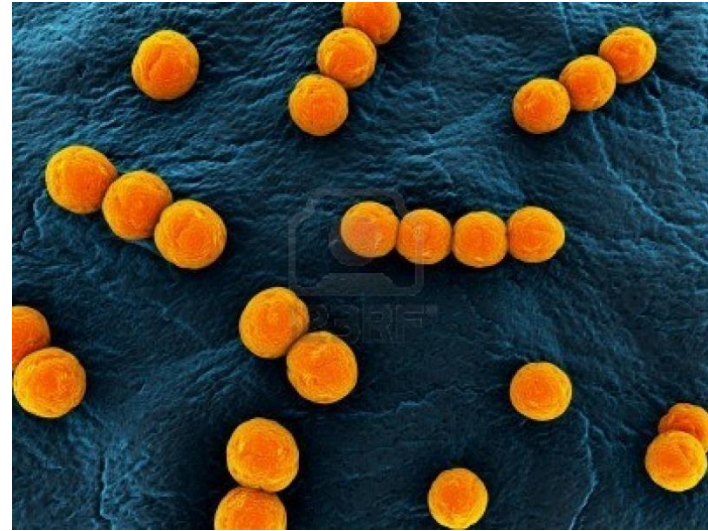
Tartu Ülikool

Tanel.Tenson@ut.ee





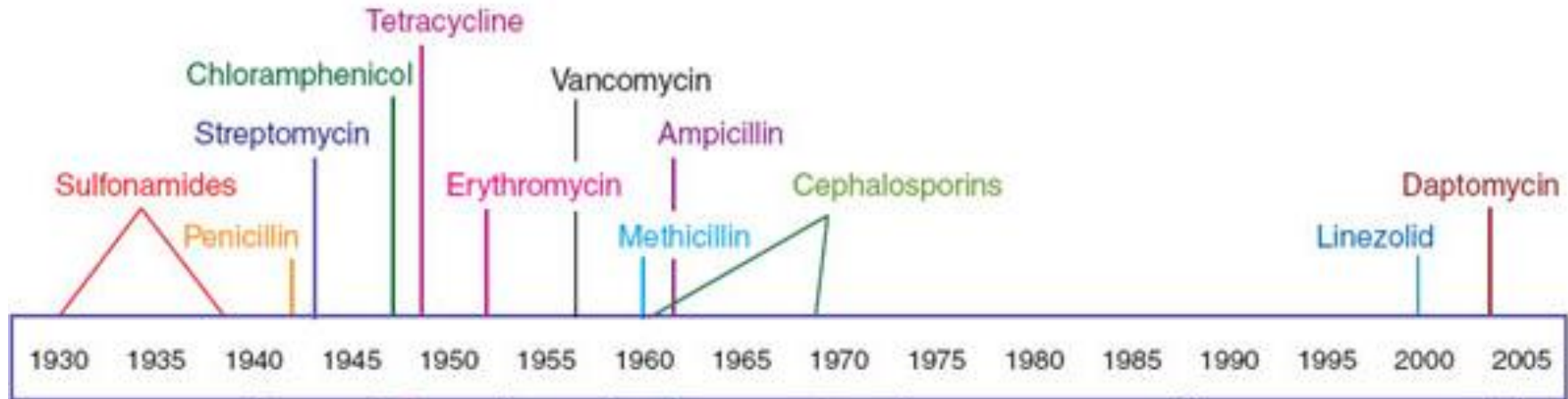
Scanning Electron Micrograph of
Mycobacterium tuberculosis



Chris Bjorner/Photo Researchers, Inc.



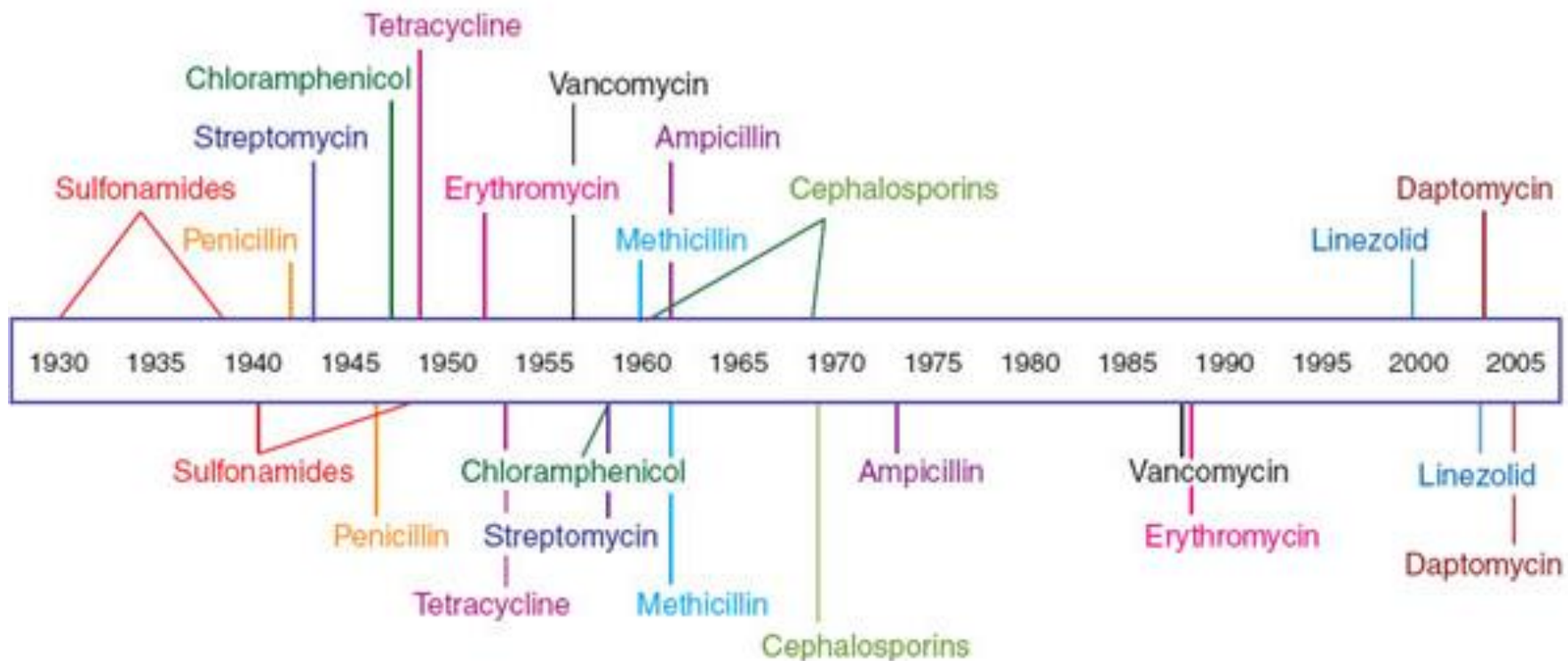
ANTIBIOOTIKUMIDE VÄLJATÖÖTAMINE



Clatworthy et al, Nature Chemical Biology

RESISTENTSUSE TÕUS

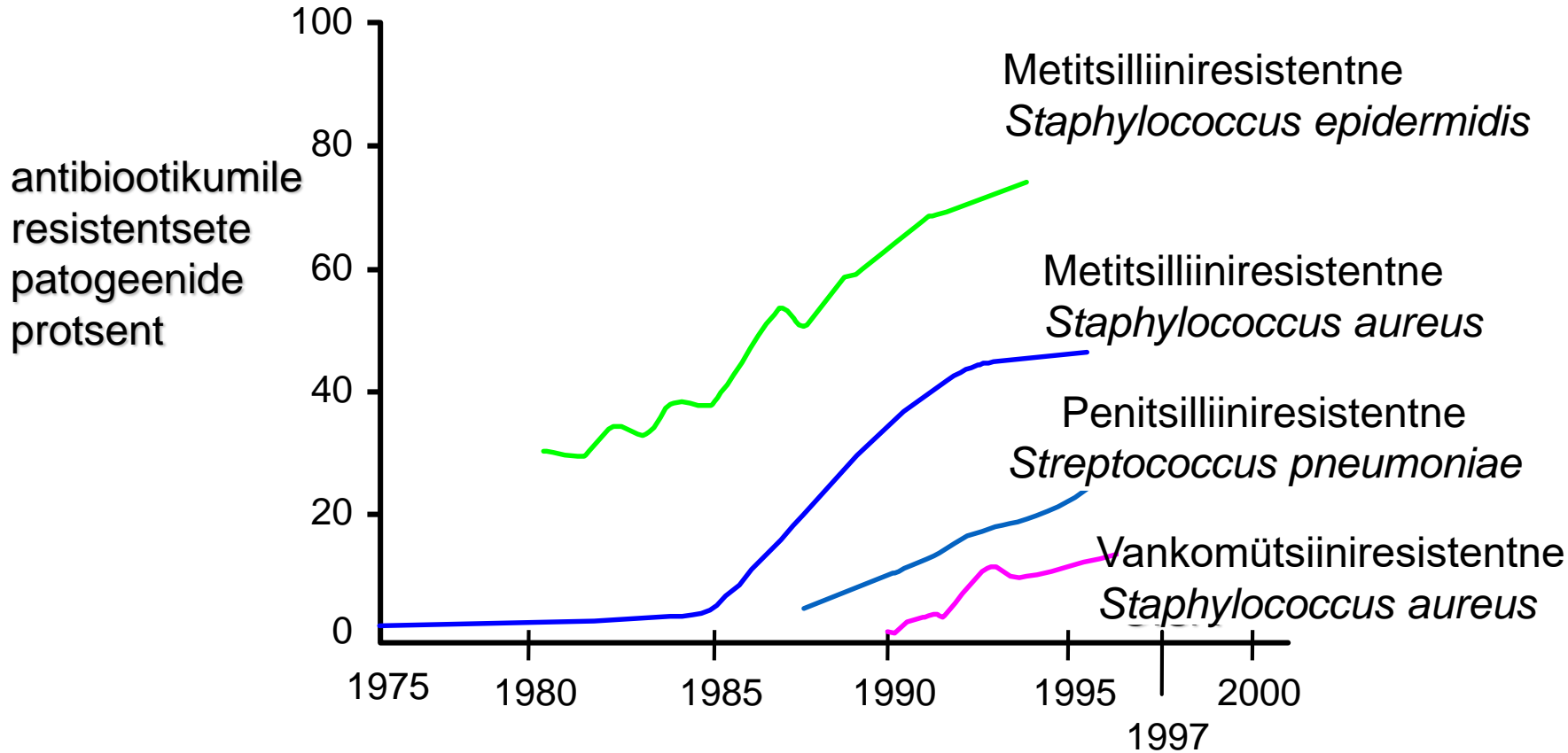
Antibiootikumi kasutusele võtmine



Resistentsuse teke

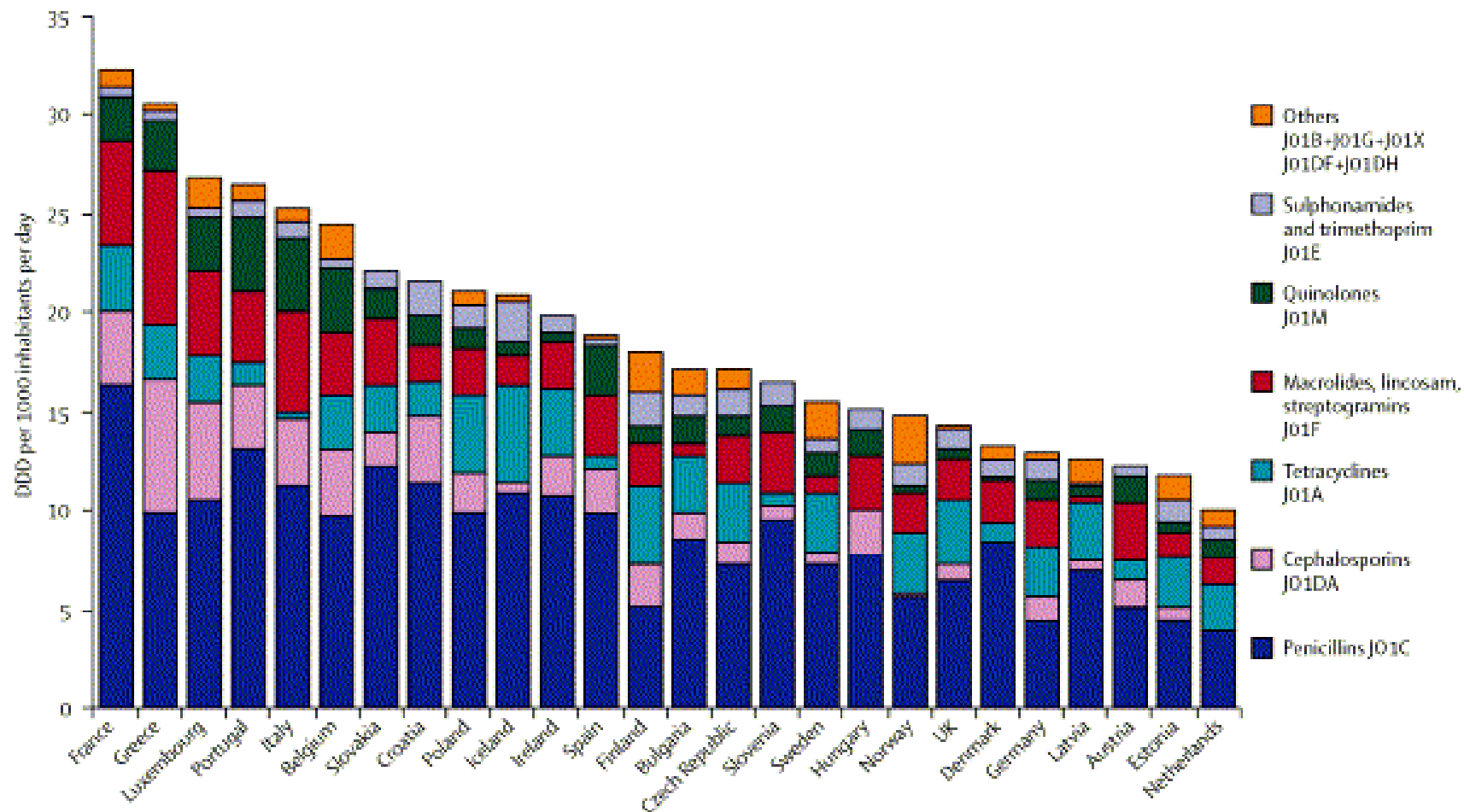
Clatworthy et al, Nature Chemical Biology

ANTIBIOOTIKUMIRESISTENTSUSE LEVIK (USA)



FDA

ANTIBIOOTIKUMIDE KASUTAMIST ON VÕIMALIK VÄHENDADA – KASUTUSES ON RIIGITI SUURED ERINEVUSED

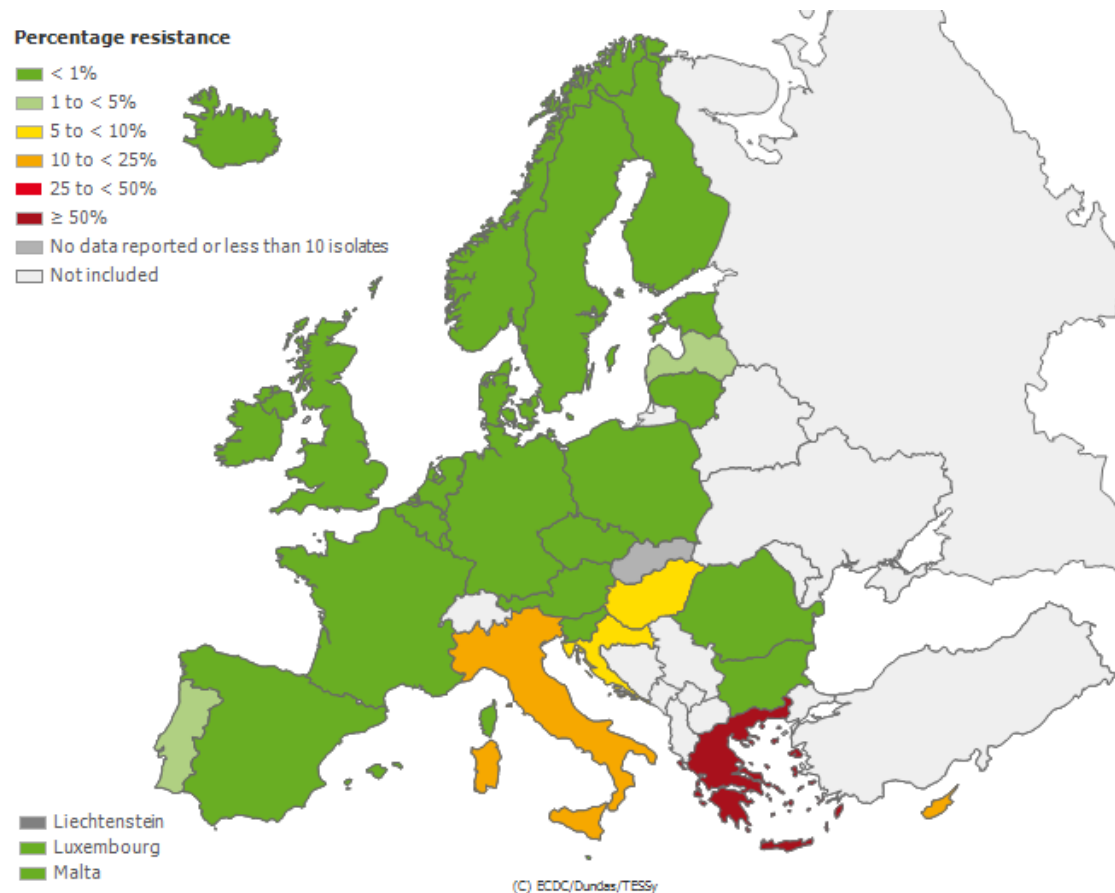


Lancet 2005; 365: 579-587

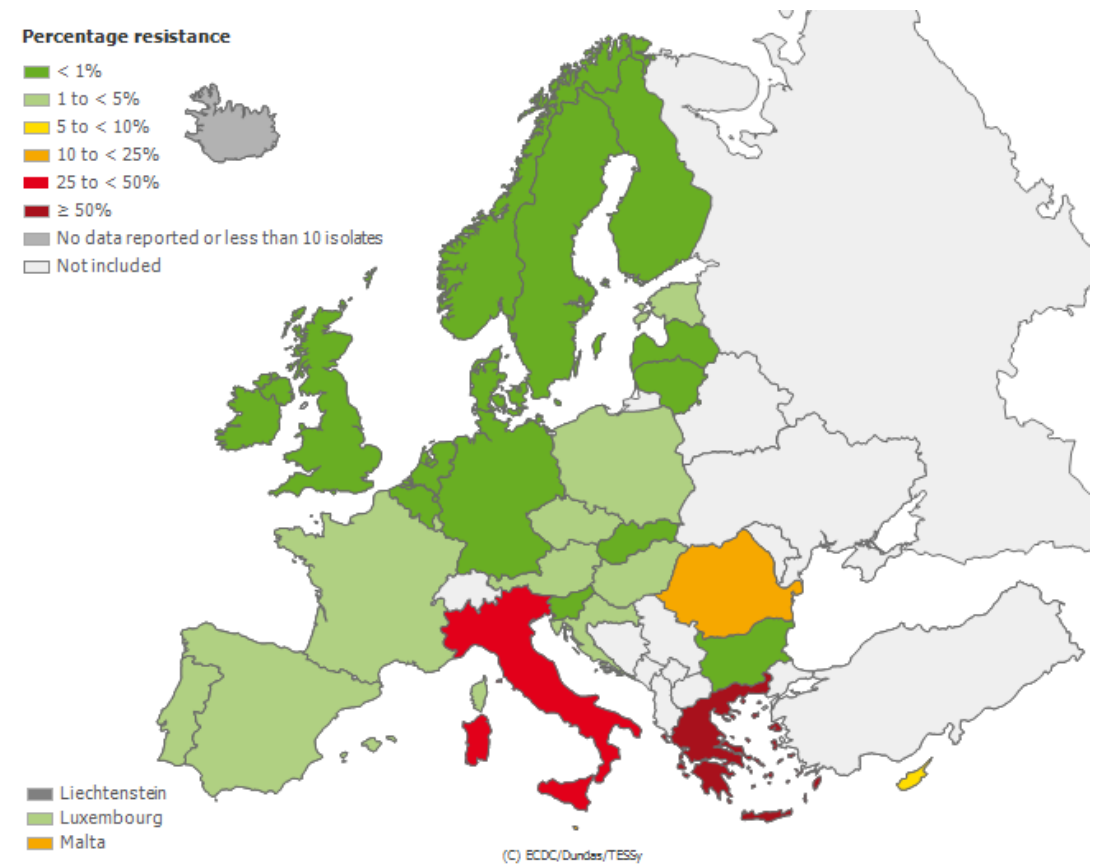
UUED VÄLJAKUTSED: KARBAPENEEMIRESISTENTSUS JA ESBL

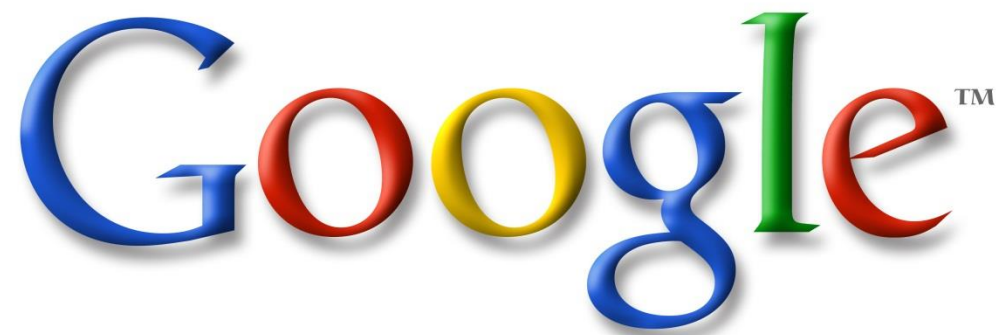
K.pneumoniae karpapeneemiresistentsus

2010



2013





**ME VAHETAME BAKTEREID
SÕPRADEGA**

KOER LAPS





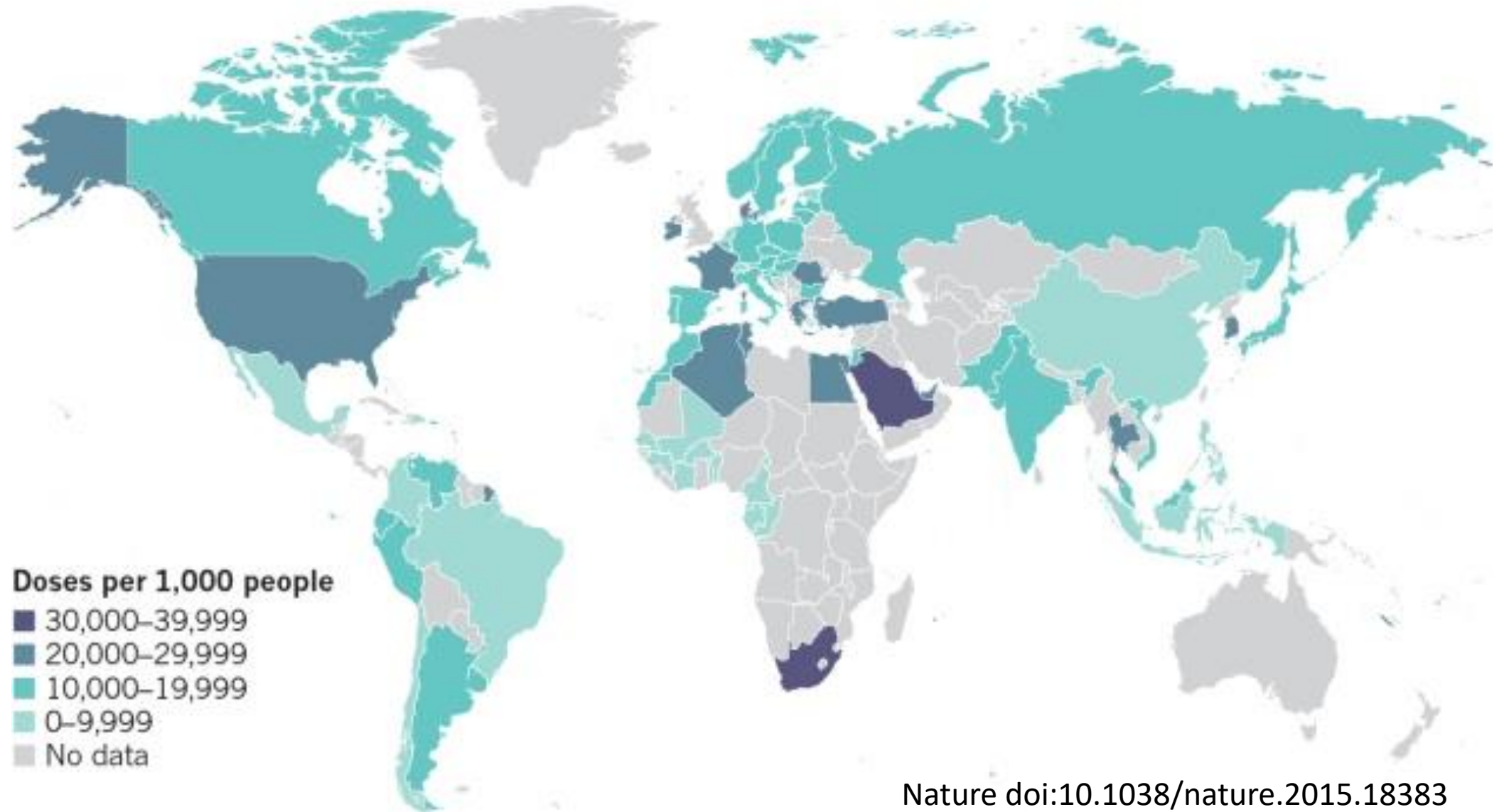




ME EI OLE PLANEEDIL MAA ÜKSI...

TREATMENT TRENDS

The first comprehensive, global report on antibiotic use shows that the drugs are increasingly popular in low- and middle-income countries.



REISIMINE, KAUBAD jne



2012.a miljard reisijat
Proгноositav reisijate arv 2020.aastaks 1.6 miljardit

LAIENDATUD SPEKTRIGA BEETALAKTAMAASI OMAV
ESCHERICHIA COLI

KANDJAID TAVAPOPULATSIOONIS 6%

KANDJAID SEAFARMI TÖÖTAJATE HULGAS 27%



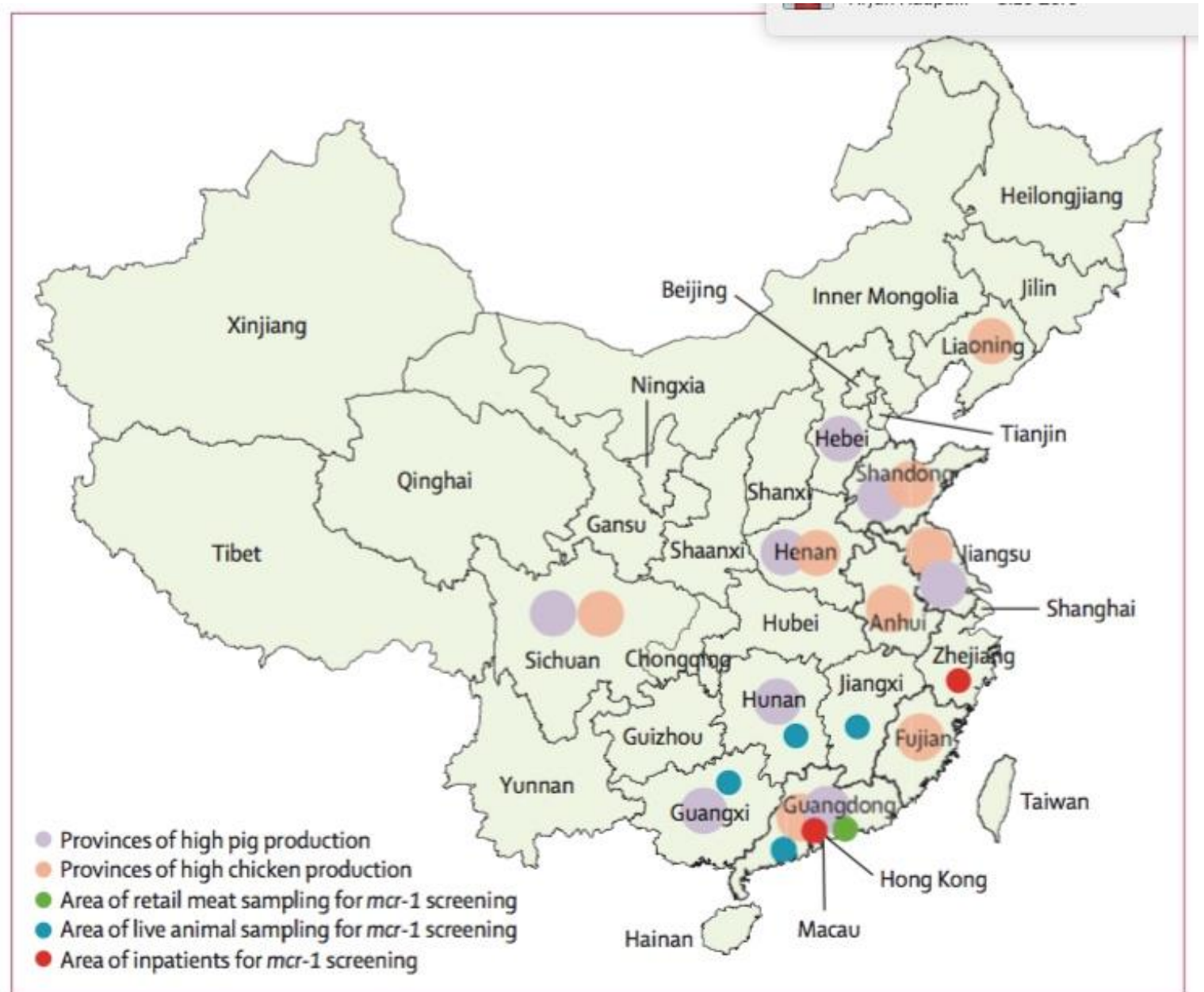
KOLISTIINIRESISTENTSUS

mcr-1

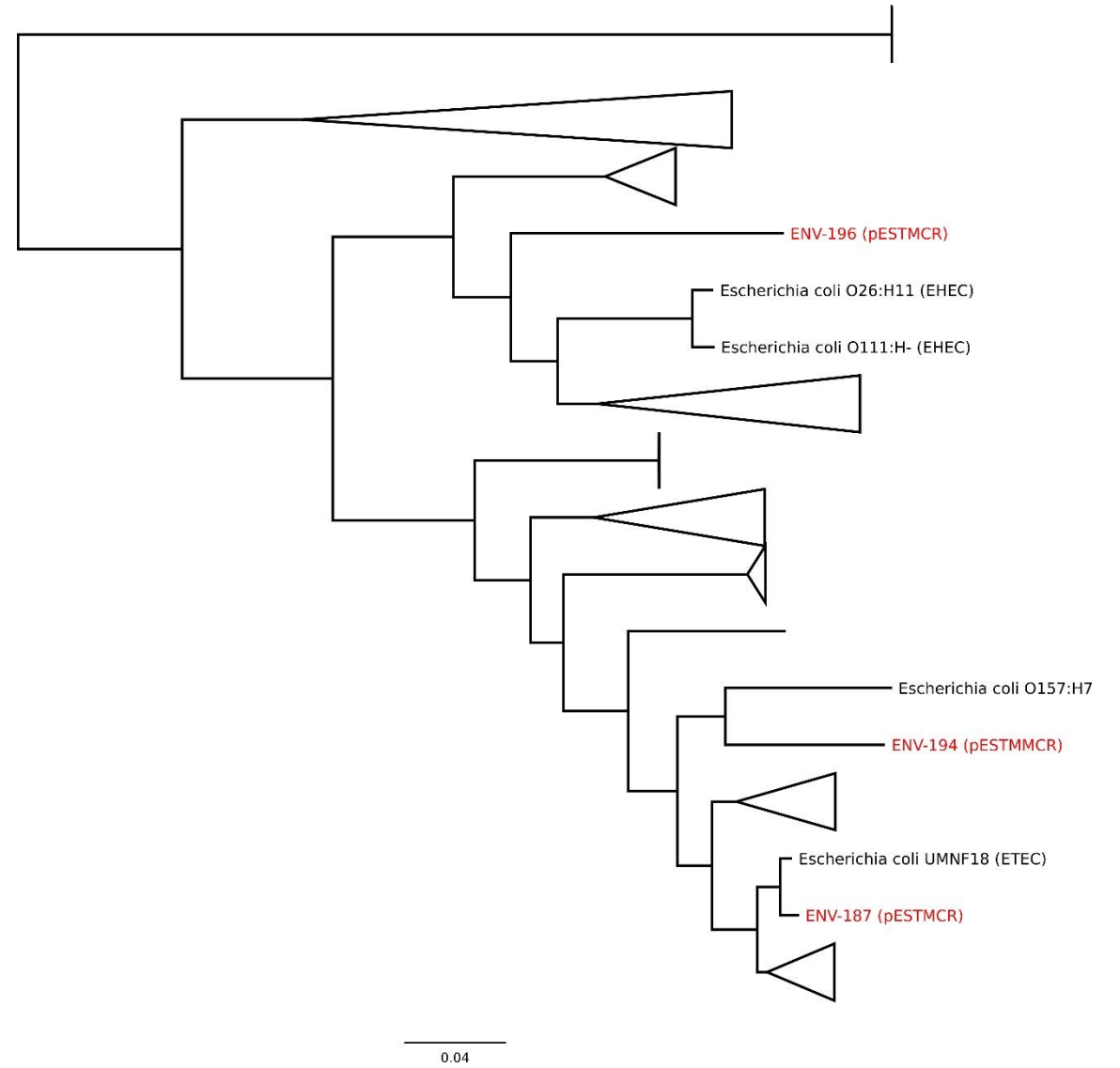
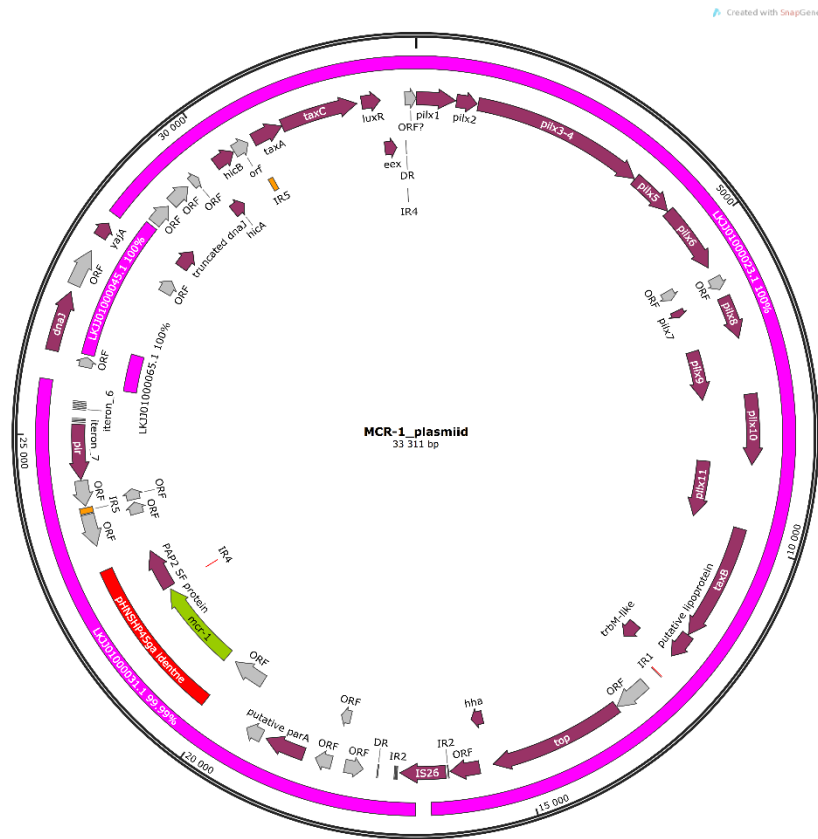
Loomade ja liha proovides
umbes 20%

Inimesel 0,1%

Liu et al
November 2015
Lancet Infectious Diseases

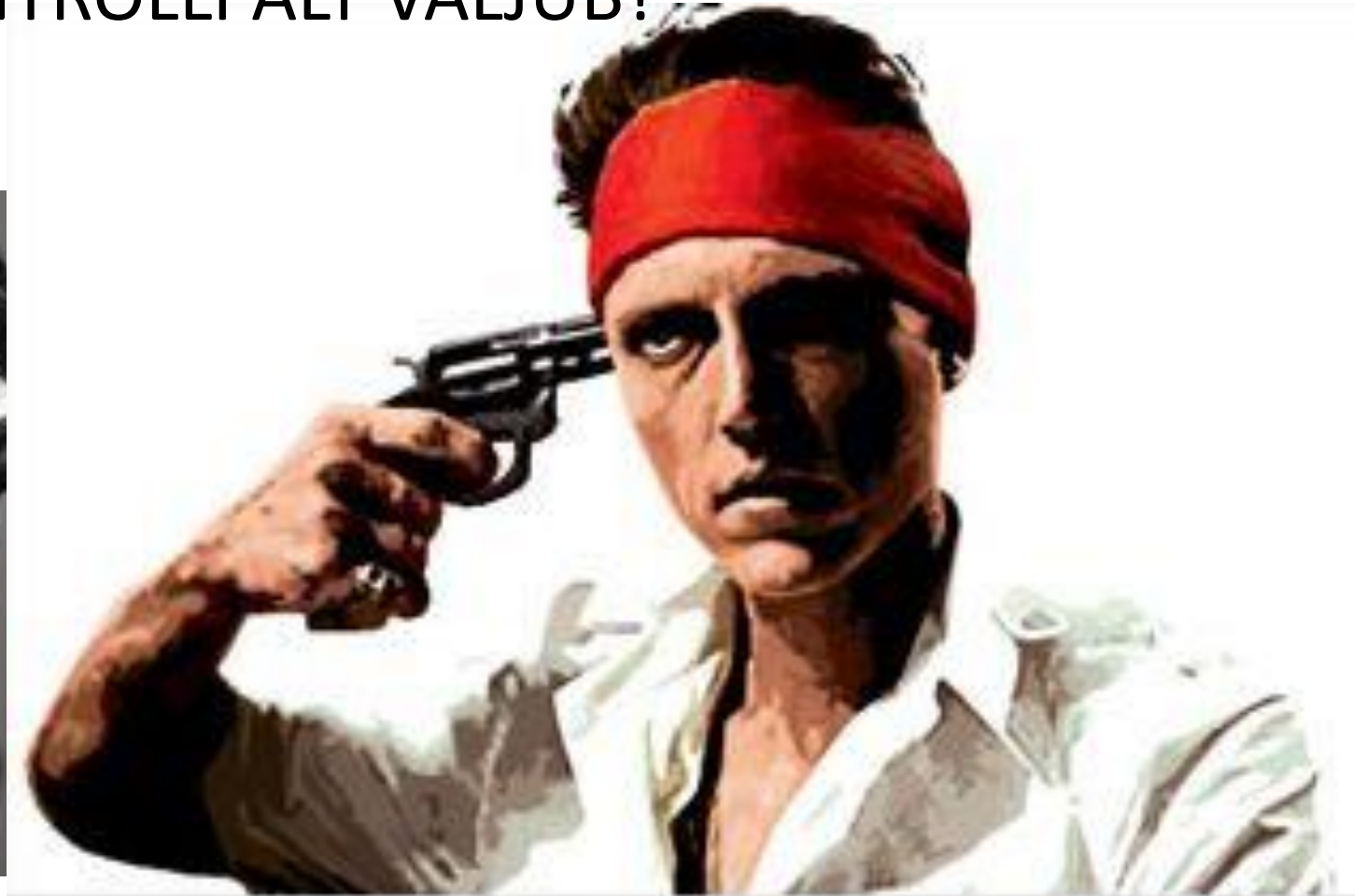


EESTIS



KAS ME PEAKSIME MURETSEMA?

MILLAL OLUKORD KONTROLLI ALT VÄLJUB?



MIDA ME SAAME TEHA?

KASUTAME VÄHEM

KASUTAME MÕISTLIKUMALT

ME VAJAME UUSI ANTIBIOOTIKUME