

Biofilm i kroniske infektioner og nye behandlinger

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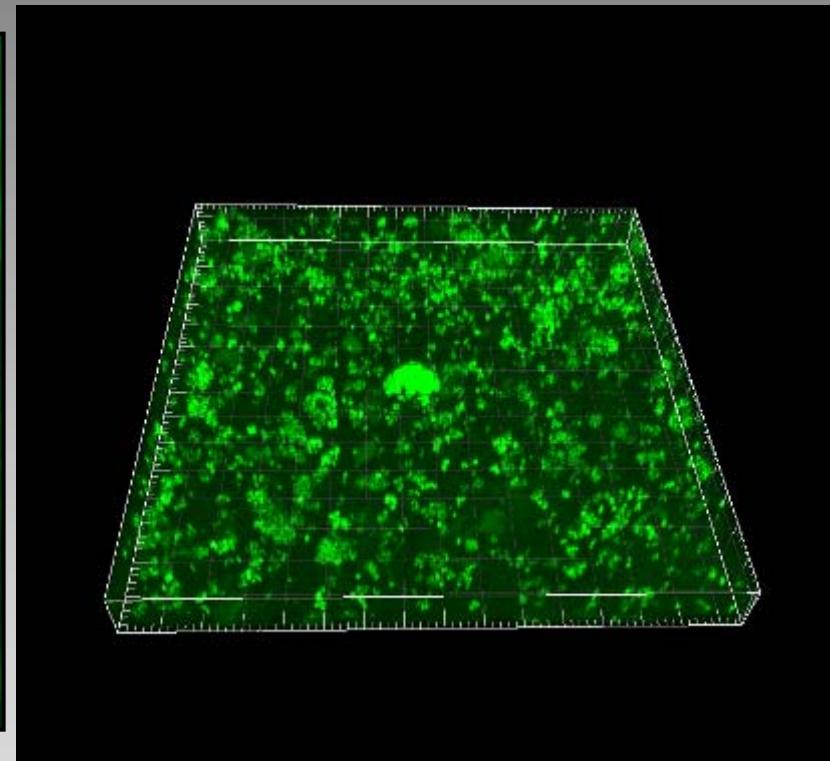
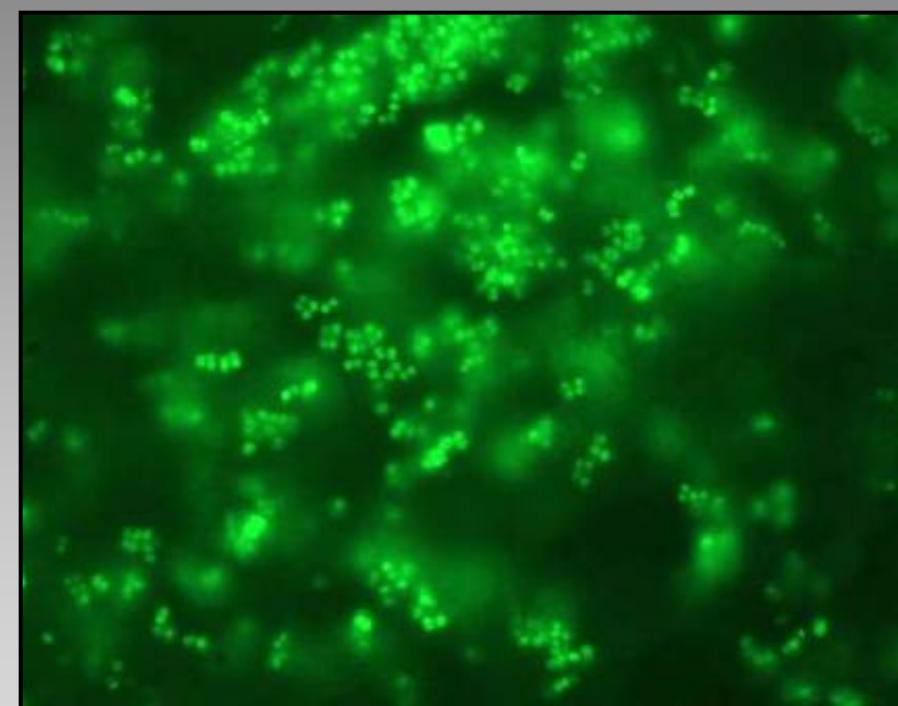
DET SUNDHEDSVIDENSKABELIGE FAKULTET
KØBENHAVNS UNIVERSITET



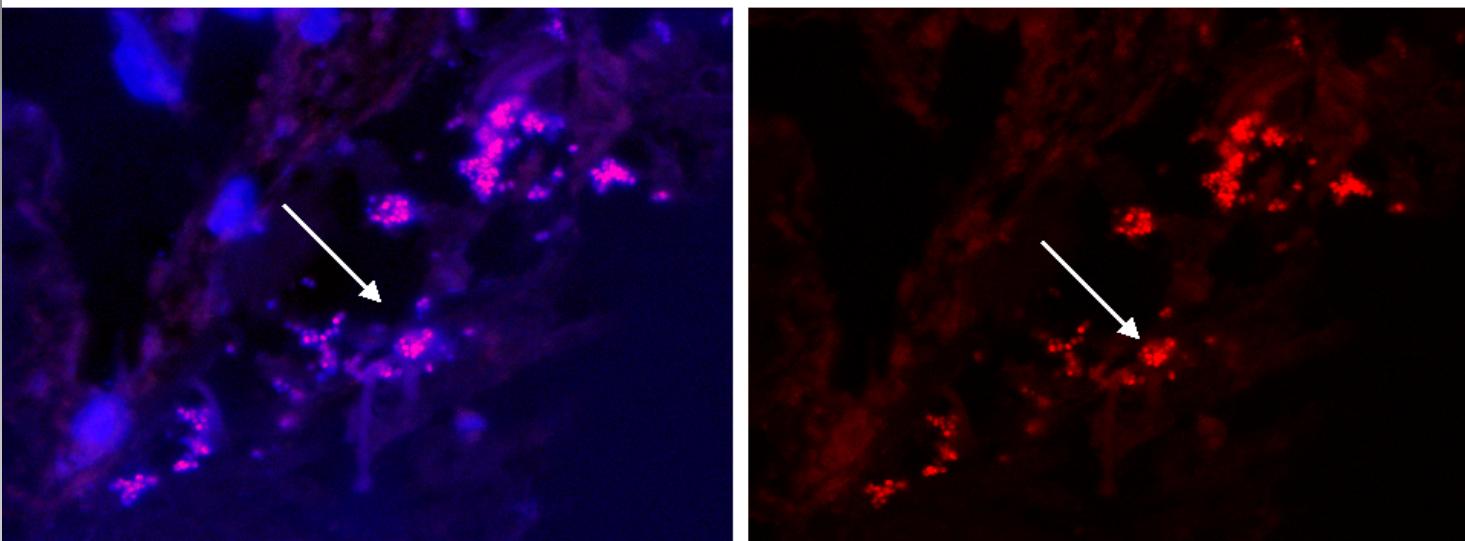
Rigshospitalet

Biofilm = Kronisk infektion
og/eller
Kronisk infektion = Biofilm

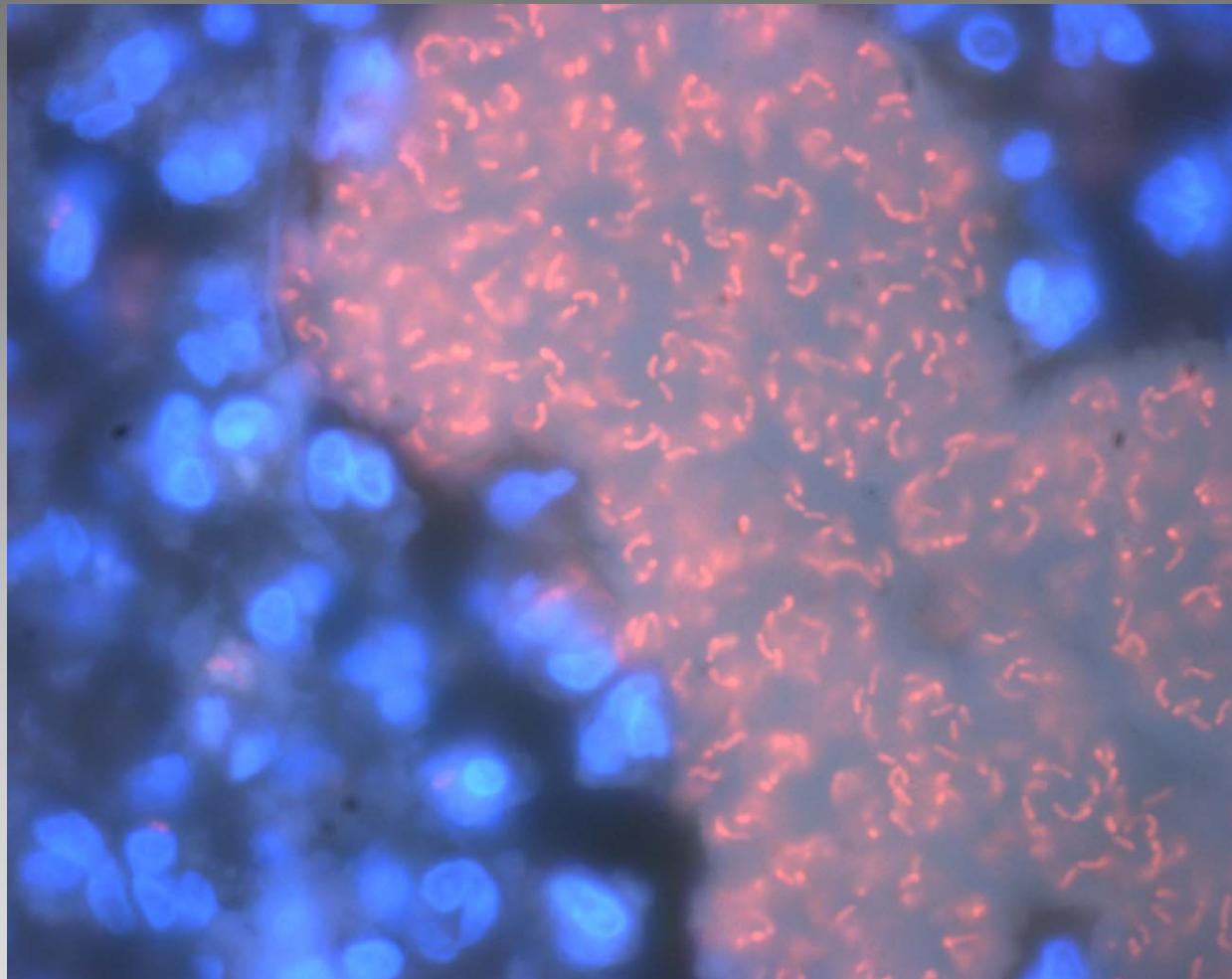
Kronisk mellemørebetændelse



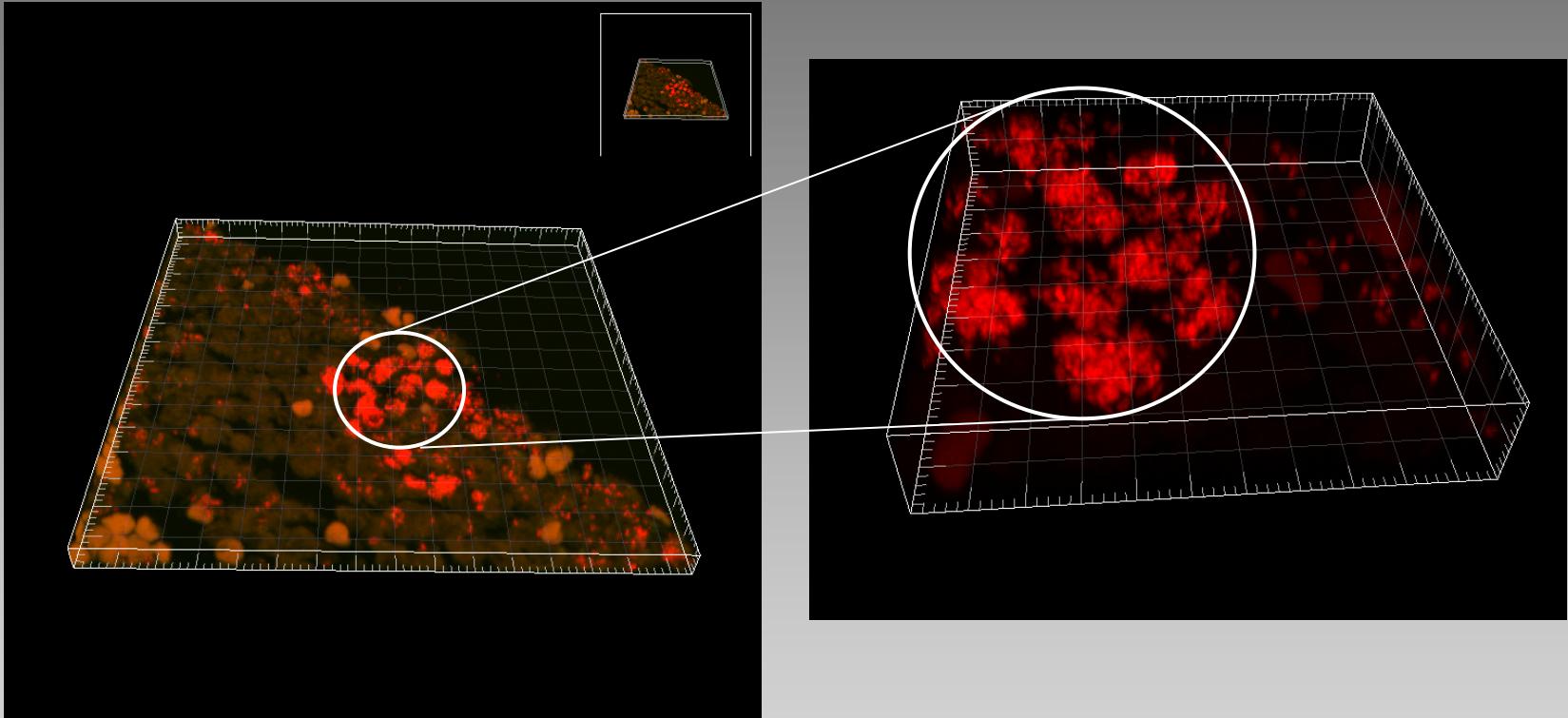
Vævsfyldere



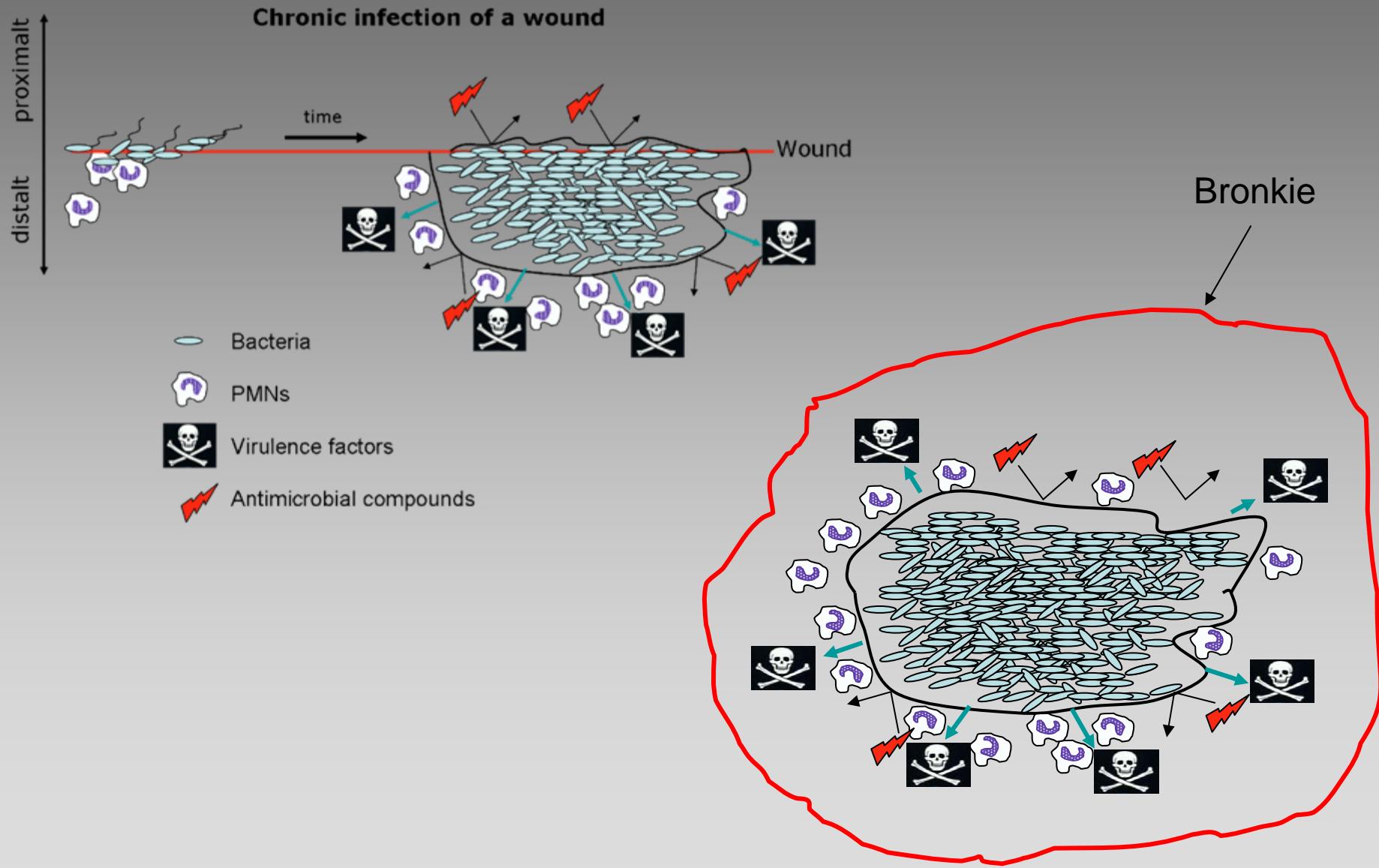
Cystisk fibrose



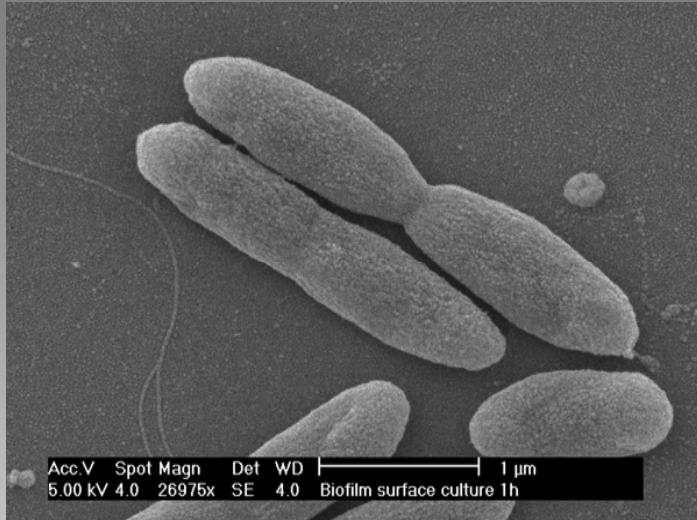
Kroniske sår



Vedvarende infektion

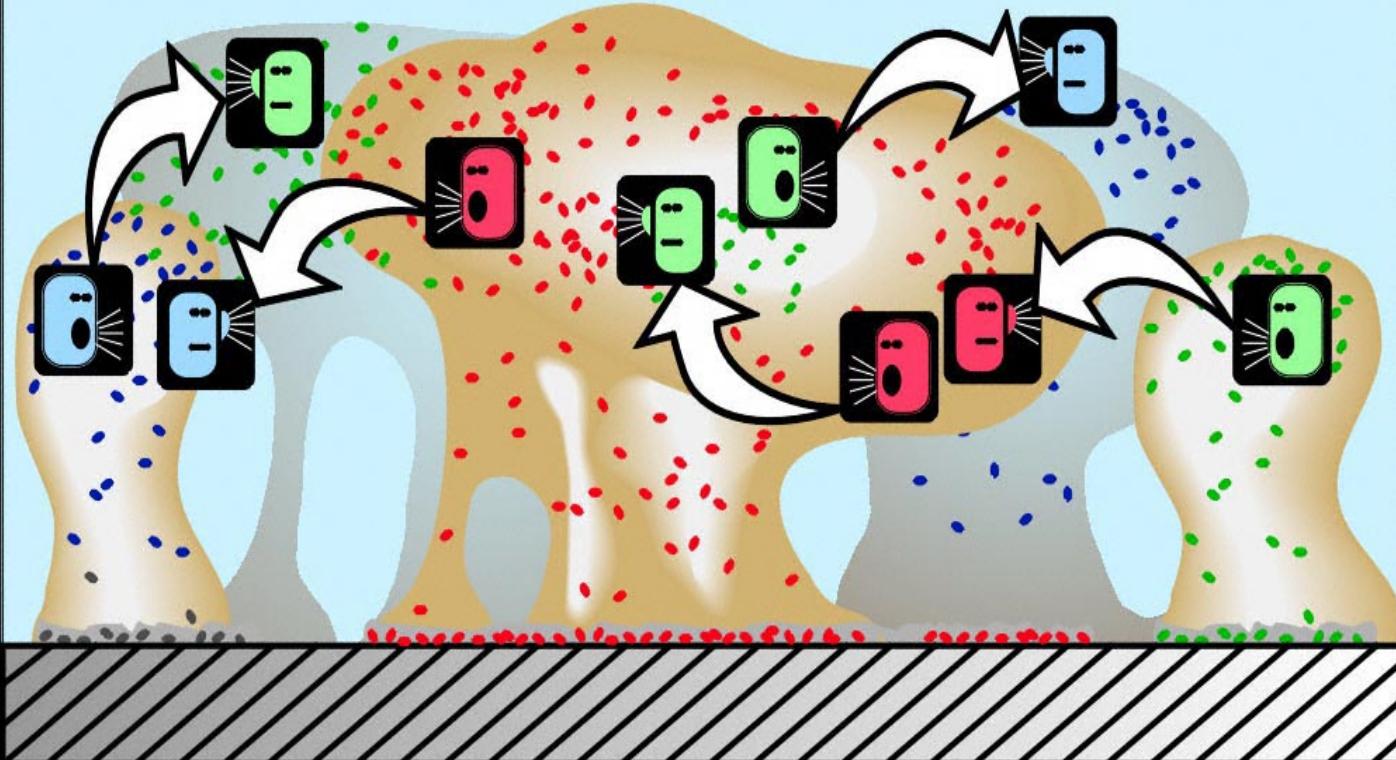


Forståelse af biofilm

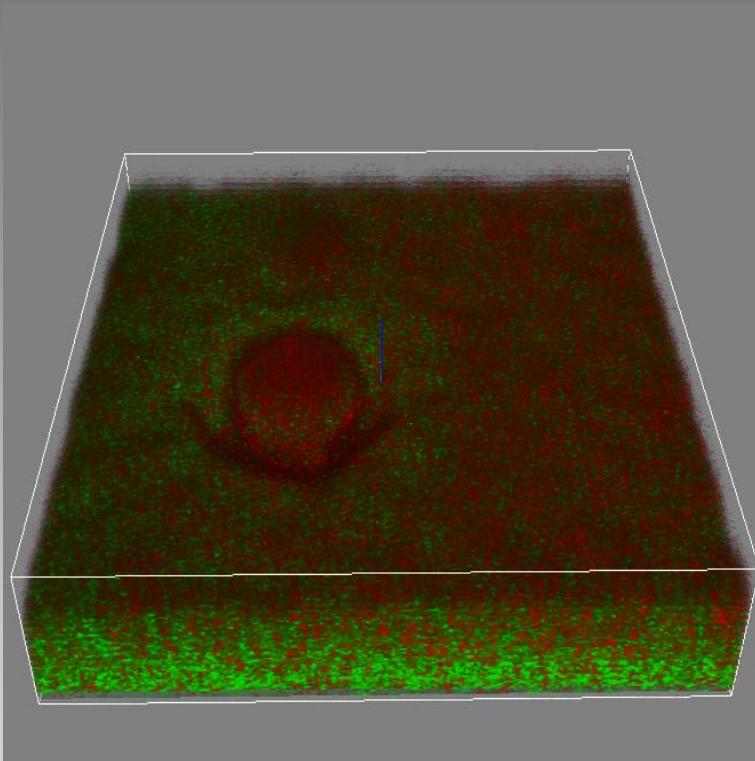


Quorum sensing og Biofilm

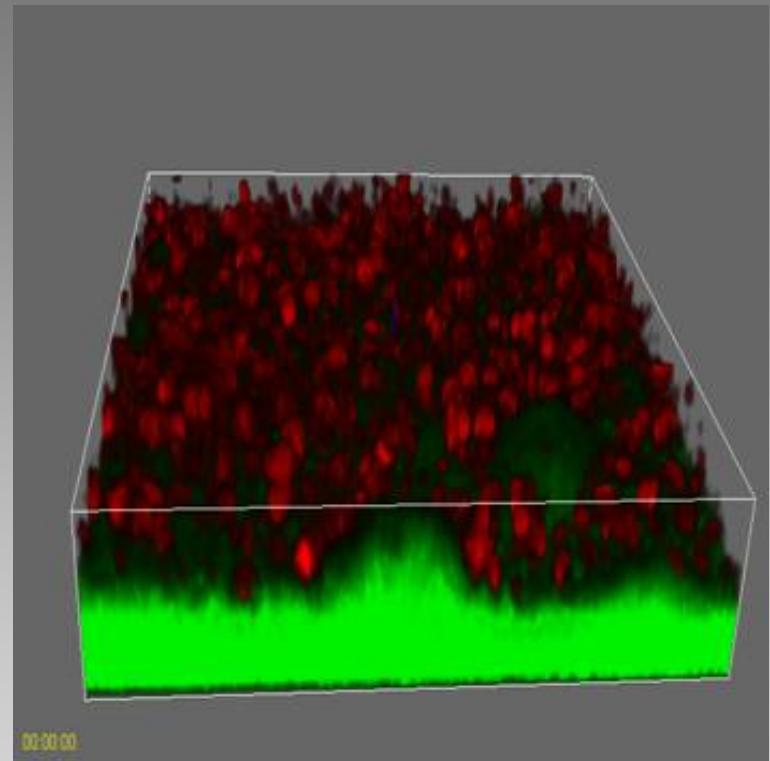
Cooperative behaviour among bacteria



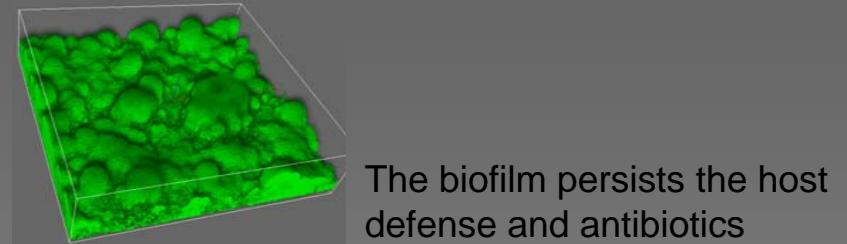
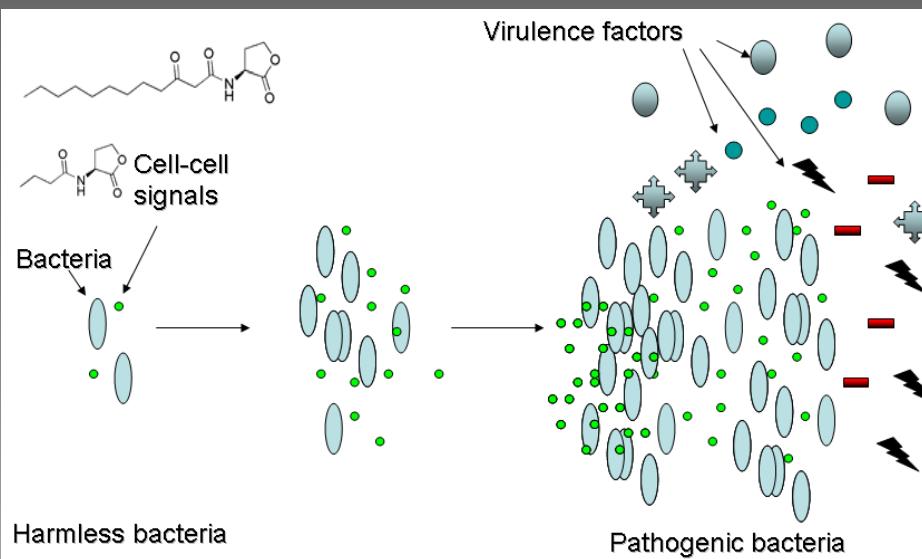
Biofilm tolerance



Live/dead stain of antibiotic treated biofilm

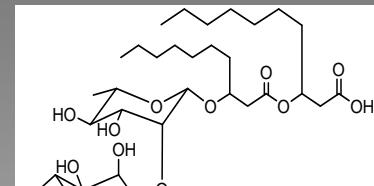


Paralysis of neutrophils
(white blood cells)

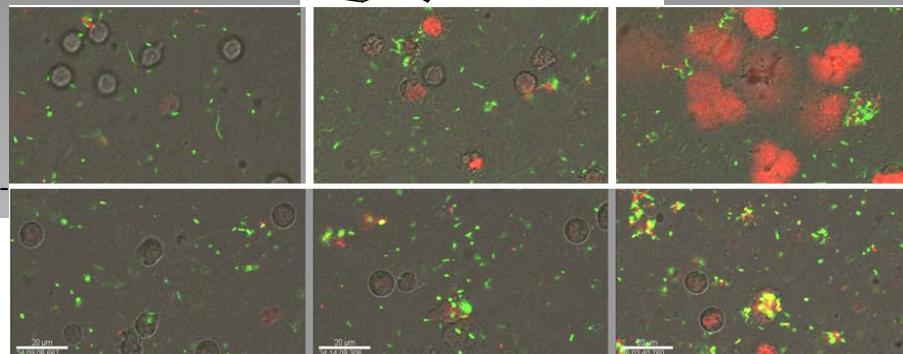


The biofilm persists the host defense and antibiotics

Chronic infections develop

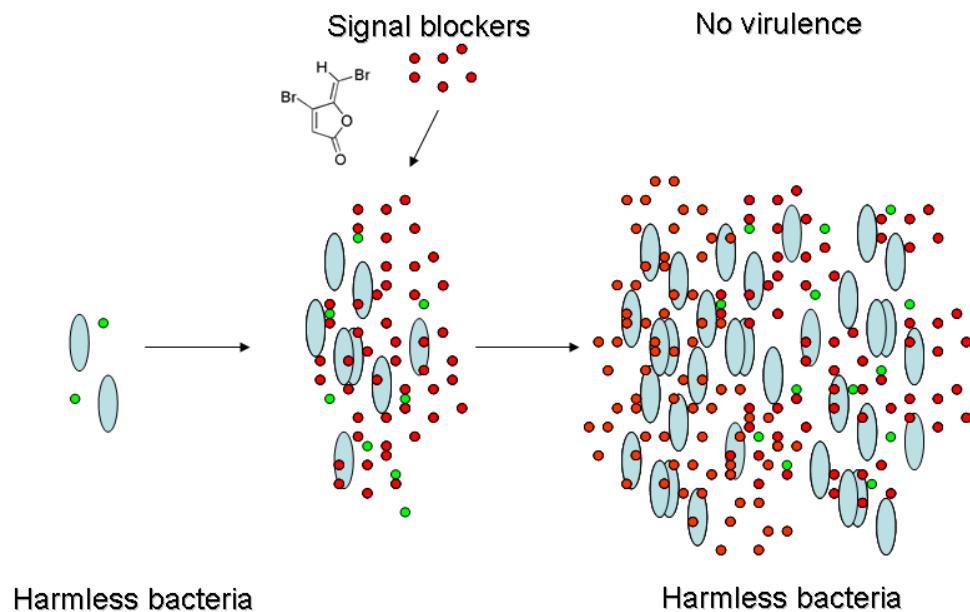


Shield up

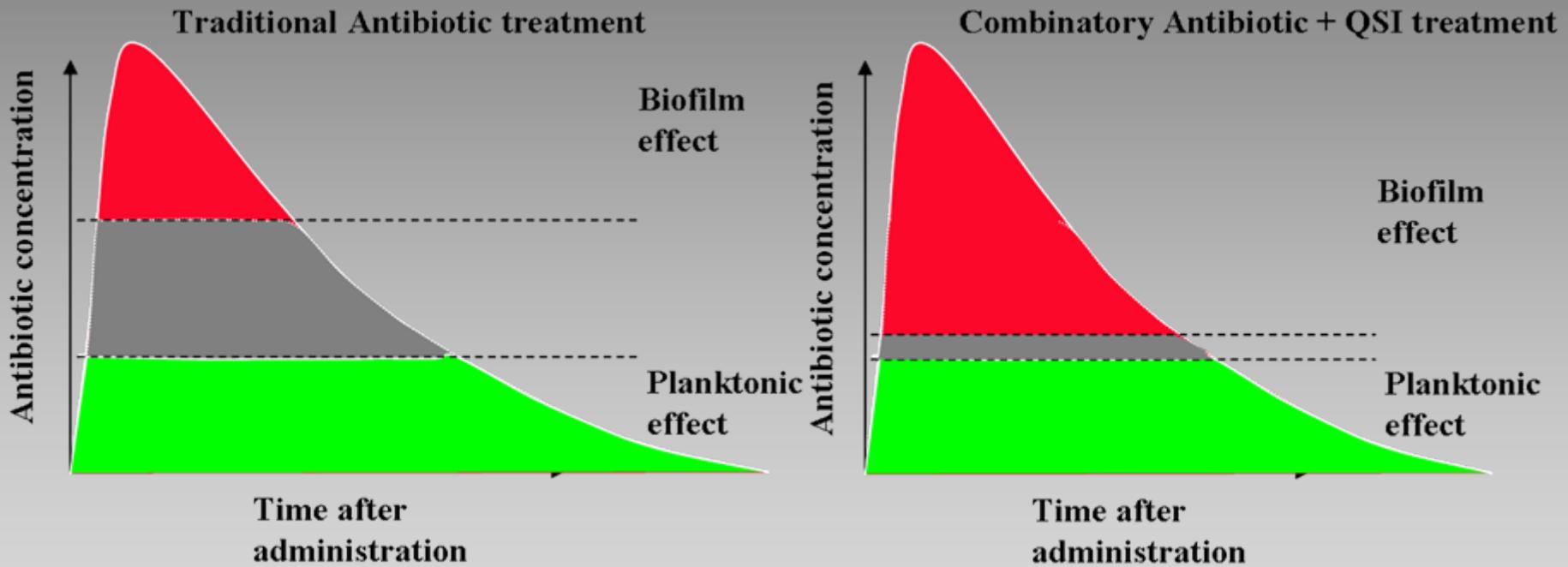


No tolerant biofilms
The bacteria are removed by the host defense
No chronic infection

Shield down



QSI widens the therapeutic window



Collaborators

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AdvanDx