



PMA treatment to detect viable micro-organisms



Locations with a viable presence of *K. pneumoniae*



Genome sequences of coexisting microorganisms with
>1% relative abundance



Genome-scale
metabolic network
reconstruction



KBBase
PREDICTIVE BIOLOGY



ModelSEED

Genome-scale Metabolic Models



Network-based analysis
with MetQuest

Calculate 'MSI'



Individual



Pair



Community



Constraint-based
analysis with SteadyCom

Cross-microbial interactions

