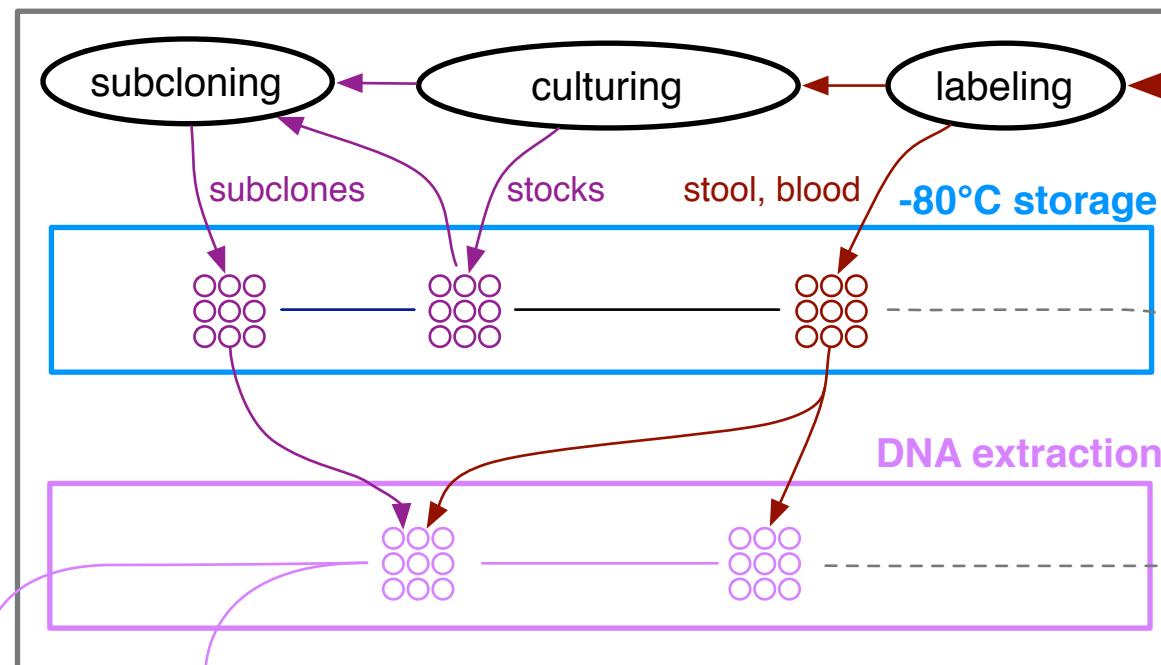


Pathogen Surveillance Program @



Bakel Lab



daily specimen delivery
specimens

Clinical Micro Lab

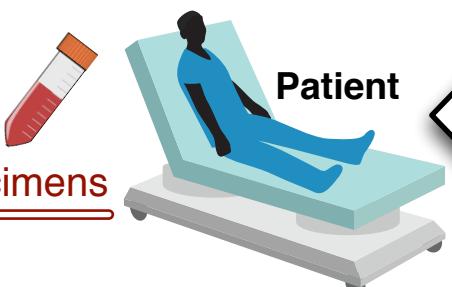


VITEK 2™

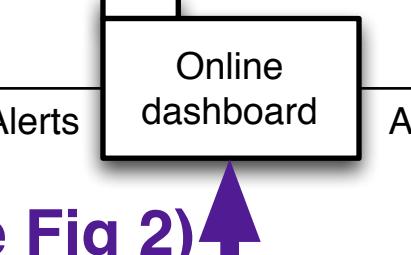


-80°C storage

Patient Care



Clinician



Infection Control

pathogenDB-viz

Culture results
Antimicrobial susceptibilities

Epic

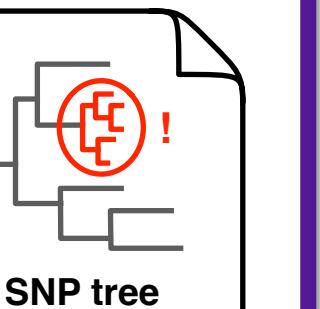
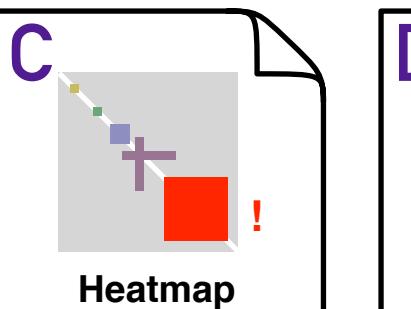
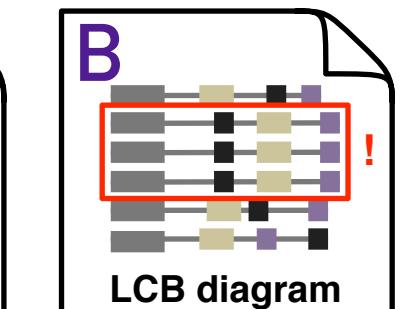
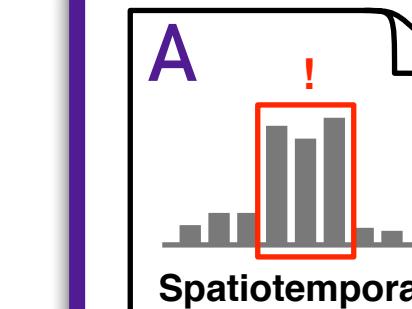
nightly import

barcoded links

de-identification

encrypted PHI DB

de-identified specimen metadata



pathogenDB-comparison

pathogenDB

pathogenDB-pipeline



PacBio RS II instrument

BLASR + quiver resequencing

H5 Files

FASTA assembly

BLAST reorientation

circlator circularization

prokka annotation

QC analyses + deposition

GRIMM rearrangement distance

Mauve multiple genome alignment

rake fetch dependencies

MUMmer pairwise genome alignment

RAXML max-likelihood phylogeny

FASTA assembly

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