

# Mobile Metagenomics

## Cellphone Based Metagenome Annotation

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See also Dr. Rob Edwards  
Presentation 47 - Saturday 4:30  
for related work!

# Outline

Real-Time Metagenomics

How It Works

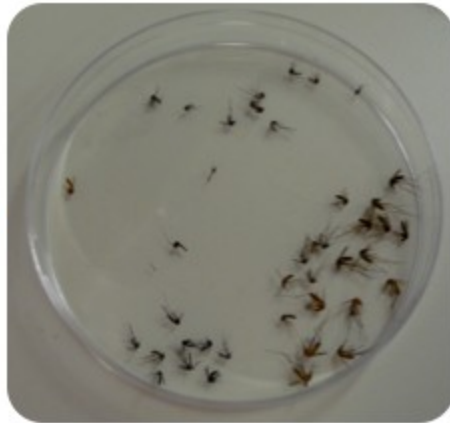
Why Mobile?

User Experience

# Real Time Metagenomics (RTMg)



Collect mosquitoes



Separate or pool mosquitoes



DNA extraction & amplification

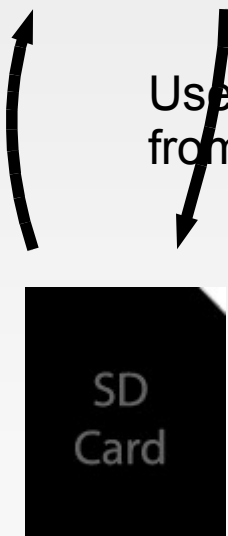
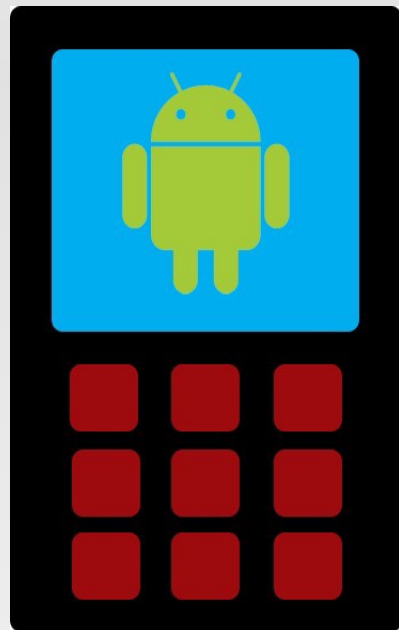


Sequencing on GS 20/GS FLX

Over 100GB of data!

...a processing nightmare!

# How It Works



User selects fasta file from SD card

Results can be saved to the SD Card

Data is uploaded to our server  
Results are displayed on the phone

The file is uploaded to our server  
Results can be Shared via email

or OpenSocial

Additional results are displayed on the phone

Initial results are pushed back to the phone  
Results can be stored on our server

Data processing begins



# Going Mobile

DFOID DOES

Metagenomics!



ANDROID



# Demonstration

