ANIDA -2 Thes > JCII

MID7: AIV Detection + Analysis I 3/3/15

Mod Abstract & Duta Summary are due Shannon's office hours: end of next Friday 3-4pm Week Sunday 3-5pm in 528 Simmons Hall Monday 3-4pm & By pognar donced ~ more off

<u>Announcements</u>

• Discussion of homework: Background and Motivation

Konich "Big Ficture" - Why Moiome is of interest Why fly susceptibility? Fly Transition (statement J-gut pubiome J-immune system ubiom. ion dok we study this? prevnew of your experiment, & That has to contain your Hypot

<u>Announcements</u>

- Journal club next Tuesday: Meet in 16-336 at 1:30pm (speakers 1:15pm)
- Also lab treat next time
- What happened since we were in lab last Tuesday:
- I) Sequencing reactions were sent to Genewiz
- 2) Out of 160 sequencing reactions 120 "successful" reactions
- 3) Out of 120 successful reactions only 2 clones contained 16S rRNA gene



 What did we do? What steps might have gone wrong? A) PCR No specific promers replaced All A) PCR primer dimers - Spectreagents vxn tions Template problem Spectreagents dNTPS - polymerase Bird Sample 274 062 058 050 302 290 312 040 3000 bp— 1500 bp-500 bp — B) Started from Swatch w/ frozen bird



Insert Orientation



Bird Microbial Communities -- Prelim. Analysis



Today in lab (AIV experiment):



Today in lab (practice analysis):

- Learn to navigate the Genewiz website
- Practice combining sequence and searching BLAST for OTU
- Align example sequences from birds 312, 290, and 274 using MEGA
- Create input files for Fast UniFrac analysis
- Discover how to quantitatively compare gull micro biome

Today in lab (AIV experiment):

- Set-up qPCR reactions
- Bring plate to qPCR machine 3pm
- Get data 4:30pm