Microbial Metagenomics Course

UCLA

July 2015

Our Goals

- Understand next generation sequencing
- Learn how to process and analyze 16s data

- Analyze your data!

- Understand the trends that you are finding in your data

- Learn about a few other types of NGS data

Schedule

Monday

09:00-09:30 Introduction (Emma)

09:30-10:00 Student Introduction

10:00-11:15 Preparing your computers for the tasks ahead

11:15-12:00 Lecture: Next Generation Sequencing (Emma)

Lunch

13:00-14:00 Introduction to Command Line (Vanessa)

14:00-17:00 Command Line Practical

Tuesday

09:00-09:30 Lecture: Introduction to QIIME (Nate)

09:30-12:00 QIIME tutorial

Lunch

13:00-17:00 Data analysis with QIIME

Wednesday

09:00-12:00 Data analysis with QIIME

Lunch

12:00-13:00 Statistical analysis with PRIMER-E (Emma)

13:00-16:30 Data analysis using QIIME and PRIMER-E

16:30-17:15 Lecture: Introduction to marine bacteria (Emma)

Schedule

Thursday

09:00-09:45 Lecture: Bacterial-host symbiosis (Nate)

19:45-12:00 Data analysis and presentation prep

Lunch

13:00-13:30 NGS data types and other tools for analyzing them (Vanessa)

13:30-14:30 Introduction to MG-RAST (Emma)

14:30-17:00 Data analysis and presentation prep

Friday

09:00-10:00 MG-RAST discussions

10:00- 12:00 Presentation preparation

Lunch

12:00-15:00 Presentations

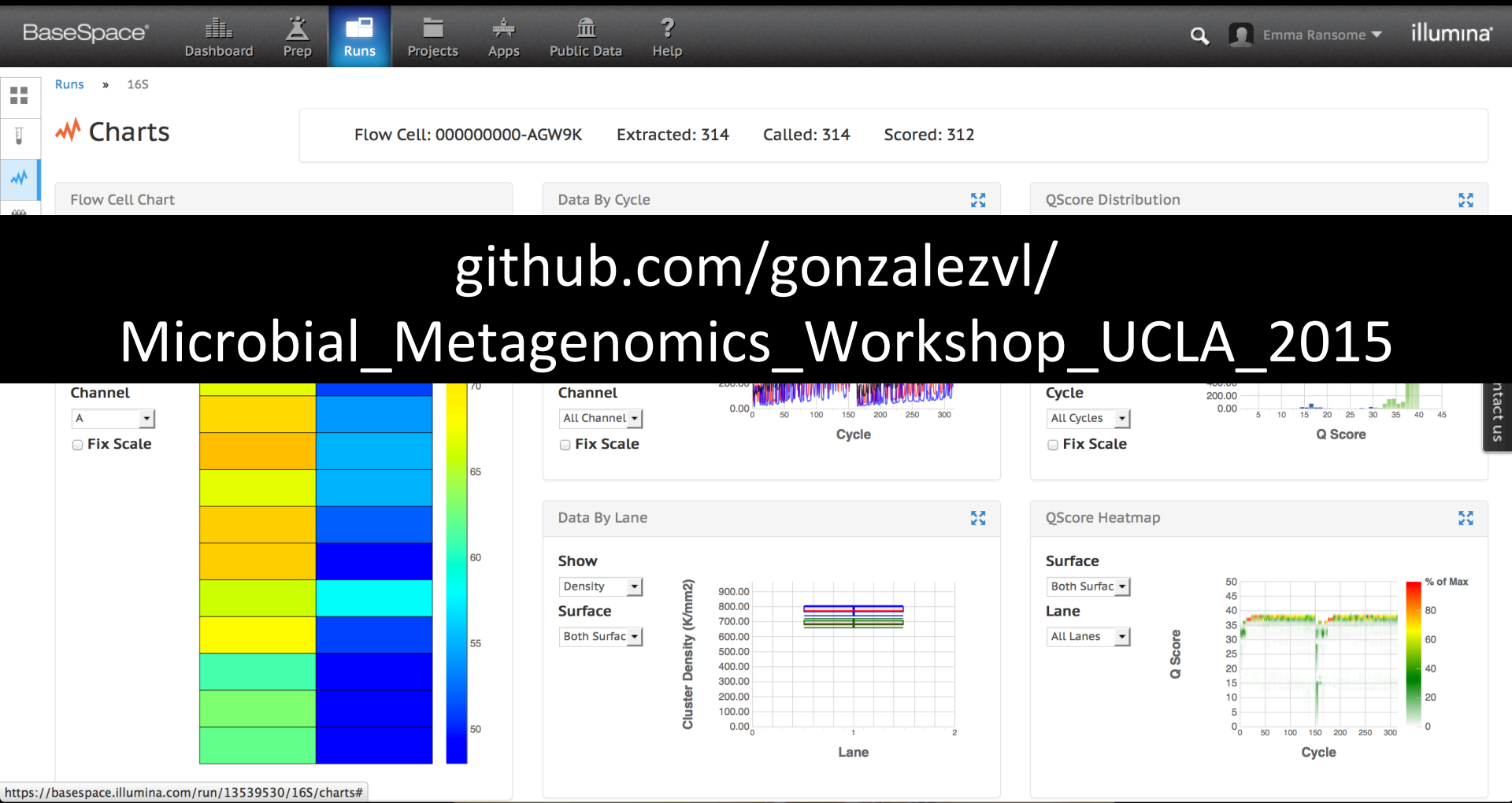
15:00-16:00 Group discussions: where to go next with the data?

Update: Your Data

Run 1: Diversity Course Data 2014 ✓

Run 2: Your first data ✓

Run 3: The last of your data!



github.com/gonzalezvl/Microbial_Metagenomics_Workshop_UCLA_2015