INTRO RNASEQ INFORMATICS WORKSHOP

INTRODUCTION

- ▸ Who

  - ▸ Instructors: Vanessa L. González (GGI)

  - ▸ Participants: You!

- ▸ What

  - ▸ Training on how to run RNAseq pipeline on SI-HPC, "Hydra -5"

- ▸ Why

TIPS

▸ All materials are posted to the Smithsonian Workshops GitHub: https://github.com/SmithsonianWorkshops/SMSC_2019_Conservation_Genomics/tree/master/Day8_RNAseq_assembly_and_analysis

▸ If you have questions, raise your hand. Don't be shy. If you are stuck, chances are someone else is too!

ROUGH SCHEDULE

9:00am   - Introduction to Workshop & RNAseq
9:45am   - Evaluate Read Quality (FASTQC)
10:15am - BREAK
10:30am - Trimming & Data refinement (Trimgalore)
11:00am - De Novo Transcriptome Assembly (Trinity)
11:30am - QA/QC of Assembly
12:00pm - Lunch
1:00pm   - SCBI Tour
3:00pm   - BREAK
3:30pm   - Transcript Quantification
4:15pm   - Differential Expression Analysis
5:30pm   - Dinner

PRE-COURSE SURVEY

▸ Please fill out the pre-course survey:

   https://forms.gle/UwstbJxoUmzALmvj8

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