程序代写代做 CS编程辅导



We chat Costumest

This is using yeast data to understand new to analyze non-human RNA-

Emails ed to the feature for t

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https://tutorcs.com

Background

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Status

Public on Oct

Sequencing distribution with or without phosphate depletion Title

Organism

Saccharomyces cerevisiae

Experiment

Expression profiling by high throughput sequencing

type

Summary

Targeting of Averight mouth Reperietic Examplificient perturbation to assess potential and mitochondrial membrane its regulation.

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Overall design

RNA-seq (3 $\frac{QQ}{P}$ incates of WT, prototrophic WT, pho85, rpo41, or rpo41/pho85 deletion in yeast, and bar1 deletion in W303 yeast) in samples with or without depletion of phosphate, nitrogen, and/or uracil.

Data

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• Experiments:



grow with no phosphate f grow with phosphate for 4hr

Data

https://ncbi.nlm.nih.gov/\textstytettytetec=SRP395898&o=acc s%3Aa <u>&s=SRR21445048,SRR21445049,SRR21445050,SRR21445042,SRR2144</u>
Assignment Project Exam Help 5043,SRR21445044

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✓ 19	SRR21445042	SAMN30693178	6.57 G	1.94 Gb	SRX17448893	wild-type	GSM6552448	GSM6552448	Saccharomyces cerevisiae (BY)	grow with no phosphate for 4hr
✓ 20	SRR21445043	SAMN30693179	7.81 G	2.31 Gb	SRX174488	Q: 749389	CSM6932447	GSM6552447	Saccharomyces cerevisiae (BY)	grow with no phosphate for 4hr
✓ 21	SRR21445044	SAMN30693180	6.69 G	1.96 Gb	SRX17448891	wild-type	GSM6552446	GSM6552446	Saccharomyces cerevisiae (BY)	grow with no phosphate for 4hr
_ 22	SRR21445045	SAMN30693181	6.49 G	1.92 Gb	SRX174488	tps://tutoro	CSNCOM	GSM6552445	Saccharomyces cerevisiae (BY)	no treatment (ctrl for no ura)
23	SRR21445046	SAMN30693182	7.89 G	2.31 Gb	SRX17448889	wild-type	GSM6552444	GSM6552444	Saccharomyces cerevisiae (BY)	no treatment (ctrl for no ura)
_ 24	SRR21445047	SAMN30693183	6.08 G	1.81 Gb	SRX17448888	wild-type	GSM6552443	GSM6552443	Saccharomyces cerevisiae (BY)	no treatment (ctrl for no ura)
✓ 25	SRR21445048	SAMN30693184	6.70 G	2.01 Gb	SRX17448887	wild-type	GSM6552442	GSM6552442	Saccharomyces cerevisiae (BY)	grow with phosphate for 4hr
✓ 26	SRR21445049	SAMN30693185	7.06 G	2.06 Gb	SRX17448886	wild-type	GSM6552441	GSM6552441	Saccharomyces cerevisiae (BY)	grow with phosphate for 4hr
✓ 27	SRR21445050	SAMN30693186	10.38 G	3.03 Gb	SRX17448885	wild-type	GSM6552440	GSM6552440	Saccharomyces cerevisiae (BY)	grow with phosphate for 4hr

Objectives

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- 1. Quality control (Galaxy 'FastQC' eq raw reads (https://usegalaxy.org/).
- 2. Mapping RNA-seq reads to **sach in the first of the fir**
- 3. Differential gene expression analysis (DE-analysis) between two conditions (with and without phosphate) (Use 'DESeq2' in R, prefiltering out lowly expressed genes before the DE-analysis)
- 4. Functional analysis (both GSEA And முழ்நில் பூர் இடிக்கு முற்ற BP (biological process), and GO_MF (molecular function) gene sets in Gene Ontology ('Cluster Profiler' in R)
- 5. Questions to answer in your reportion: tutores@163.com
 - a) What do you think about the quality of the sequencing reads based on FastQC reports?
 - b) Compared to samples without, how many up-regulated genes and down-regulated genes did you find, respectively (cutoff; BH-adjusted p-value < 0.05 and |log2 fold change| > 1)?
 - c) Based on the literature review and the functional analysis result, discuss the altered biological functions in response to the depletion of phosphate.

example

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It produces 24 outputs:

643: FastQC on data 629: Webpage

024. rair-enu uata (rastery-uump)

- 644: FastQC on data 629: RawData
- 645: FastQC on data 630: Webpage
- . 646: FastQC on data 630: RawData
- 647: FastQC on data 631: Webpage
- . 648: FastQC on data 631: RawData
- . 649: FastQC on data 632: Webpage
- . 650: FastQC on data 632: RawData
- . 651: FastQC on data 633: Webpage
- 652: FastQC on data 633: RawData
- . 653: FastQC on data 634: Webpage
- . 654: FastQC on data 634: RawData
- 655: FastQC on data 635: Webpage
- . 656: FastQC on data 635: RawData
- 657: FastQC on data 636: Webpage
- 658: FastQC on data 636: RawData
- 659: FastQC on data 637: Webpage
- . 660: FastQC on data 637: RawData
- 661: FastQC on data 638: Webpage
- . 662: FastQC on data 638: RawData
- 663: FastQC on data 639: Webpage
- 664: FastQC on data 639: RawData
- 665: FastQC on data 640: Webpage
- 666: FastQC on data 640: RawData



WeChat: cstutorcs

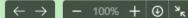
Assignment Project Exam Help

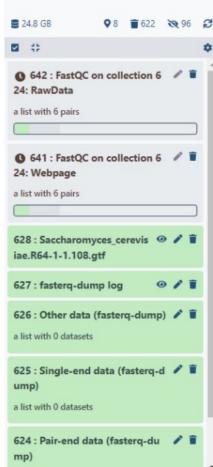
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You can check the status of queued jobs and view the resulting data by refreshing the History panel. When the job has been run the status will change from 'running' to 'finished' if completed successfully or 'error' if problems were encountered.





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24.9 GB

● 670: RNA STAR on collectio

669 : RNA STAR on collectio

668 : RNA STAR on collectio

♠ 667 : RNA STAR on collectio

n 624: reads per gene

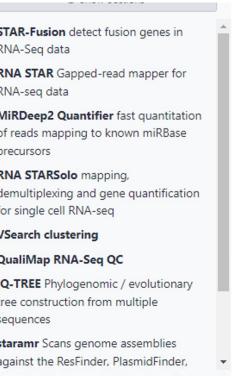
a list with 6 datasets

n 624: mapped.bam

n 624: splice junctions.bed

a list with 6 datasets

a list with 6 datasets





Submission

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- 1. FastQC reports in '.html' for ective 1). Take a screenshot of your analyses on galaxy as well, save into jp
- 2. The STAR mapping results Galaxy in 'tabular' format (Objective 2).
- 3. A table summarizing the results of differential gene expression analysis phosphate depleted culture and control samples in (Special Cobjective 3).
- 4. Tables summarizing GSOA and GSEA results, and save into '.csv' format (Objective 4).
- 5. Enrichment maps for GSOA Spice Part of the Form part (Objective 4).
- 6. Programming code in R script or R Markdown format and/or Galaxy snapshots (for every step on galaxy).

Report

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- 1. A Word file summarizing your answers to the questions in **Objective 5**, with proper figures and proper citation https://tutorcs.com
- 2. This report has to be at least one page excluding the reference page.