

UiO : Universitetet i Oslo

Lifeportal

Easy, flexible and powerful service for life scientists

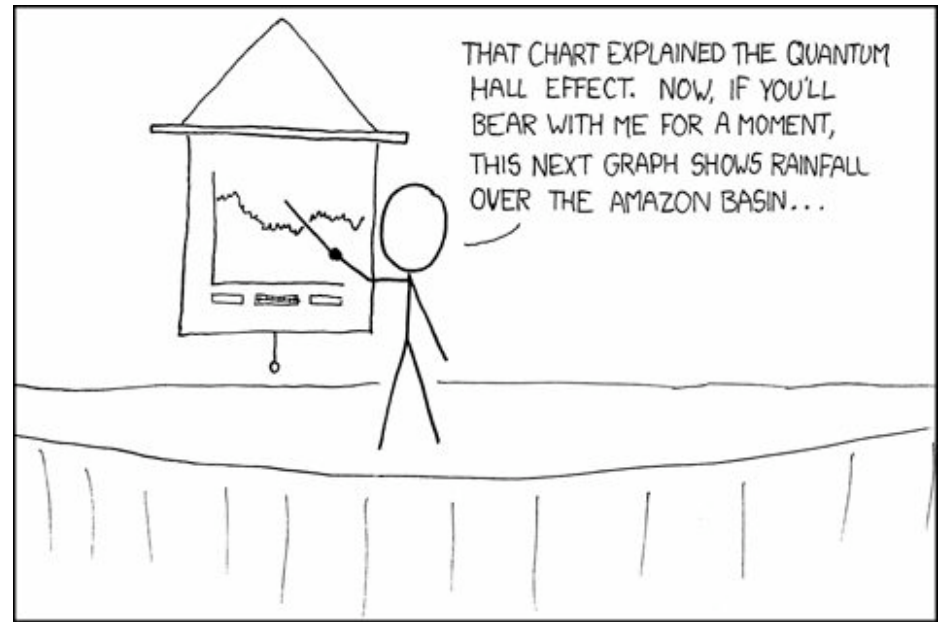
Katerina Michalickova, Nikolay Vazov, Thomas Röblitz

USIT / ITF / FT & FI



Topics

- Intro
- Sales
- Demo
- Implementation
- Roadmap



IF YOU KEEP SAYING "BEAR WITH ME FOR A MOMENT", PEOPLE TAKE A WHILE TO FIGURE OUT THAT YOU'RE JUST SHOWING THEM RANDOM SLIDES.

Intro

The screenshot shows a web browser window with the address bar displaying `https://lifeportal.uio.no/root`. The browser's address bar also shows a Google search bar and navigation icons. The website's header is black with white text, featuring the UiO logo and navigation links: **Analyze Data**, **Workflow**, **Shared Data**, **Visualization**, **Help**, and **User**. On the right side of the header, it says **Using 0 bytes**.

The main content area is divided into two columns. The left column is titled **Academic login** and contains the text "Authenticate with your **Feide** account." Below this, there is a blue button labeled **Academic Login** and a link labeled [Login for other users](#). The right column is titled **About the Lifeportal** and contains the text: "Lifeportal gives you easy access to the High Performance Computing cluster Abel at the University of Oslo. The Galaxy based Lifeportal has a continuously growing list of services, and among them the most widely used tools from the former Bioportal." Below this text, there is a link labeled [More about Lifeportal](#).

Below the **About the Lifeportal** section, there is a section titled **Getting access** with three links: [Getting access to the Lifeportal](#), [Register for BIR or CLOTU access](#), and [Reviewers registration and login](#).

At the bottom of the page, there is a section titled **Partners** with five logos: the UiO logo, the Norwegian Bioinformatics Platform logo, the MLS UiO logo, the UNINETT Sigma logo, and the Galaxy logo.

Objectives

Introduce beginners to Lifeportal,
and encourage existing users to
make it even better by challenging
us !

Sales – Key benefits



© www.golime.co

- Easy
 - web frontend to many life science tools
 - integrated sharing and reproducibility
- Flexible
 - customizations
- Powerful
 - HPC cluster Abel as backend (10000+ cores)
- Service
 - user support

Sales – How much does it cost you ?

- per core hour
- per GB storage
- per bytes transferred
- per tool installed
- per support request
- per hour spend on system maintenance



It's free !!!

Demo

- Run a simple job
- Run another job
- Create a workflow
- Sharing
- Pages

Demo Abel handshake



To: drportal@lifeportal.uio.no;



Cc: colleague@someuni.org;

Subject: Mystery sequence



unknown.fastq (4 KB) ×

Calibri



12



B

I

U



Dear Dr. Portal,

I have found an old file with sequencing reads on my computer and think it is quite important. However, I have no idea what organism these sequences came from.

I'm sure that you can figure it out faster than I can upgrade my computer and get some of my students to install all software and databases. Thank you very much for your help.

Yours sincerely,
Dr. Collaborator

Demo

To: drcollaborator@someuni.org; |



Cc: colleague@someuni.org;

Subject: Mystery sequence

 unknow.fastq (4 KB) ×

Calibri

12

B

I

U



Dear Dr. Collaborator,

Pls see the link.

<https://lifeportal.uio.no/u/katerim%40uio.no/p/unknown-fastq>

Regards,

Life Portal



(Ctrl) ▾

Some useful Lifeportal features

- (chose) your user status ?
 - «simple» user
 - project manager
- Project management
- Jobs running on a cluster

Lifeportal features : users

- User status :
 1. FEIDE users
 2. EduGAIN (soon) – 900 institutions
 3. Users (external collaborators) added by users

[←](#)
[→](#)
<https://lifeportal.uio.no/root>
[Lifeportal](#)

UiO : University of Oslo
Analyze Data
Workflow
Shared Data ▾
Visualization ▾
Help ▾
User ▾
Using 0 bytes

Academic login

Authenticate with your Feide ▾ account.

[Academic Login](#) [Login for other users](#)

Email address:

Password:

[Login](#) [Forgot password? Reset here](#)

About the Lifeportal

Lifeportal gives you easy access to the High Performance Computing cluster Abel at the University of Oslo. The Galaxy based Lifeportal has a continuously growing list of services, and among them the most widely used tools from the former Bioportal.

[More about Lifeportal](#)

Getting access

[Getting access to the Lifeportal](#)


[Register for BIR or CLOTU access](#)


[Reviewers registration and login](#)


Feide
(EduGain coming soon)


Other non-academic
users


Partners


UiO : Universitetet i Oslo


Norwegian Bioinformatics Platform


MLSUio
Molecular Life Science


UNINETT
Sigma


Galaxy

Lifeportal features : project management

1. Lifeportal allows the users to apply for projects and become *project managers*
2. Project managers manage :
 - Project members : add, delete, assign other (new) users to projects
 - Project resources : period of activity and CPU hrs

https://lifeportal.uio.no/ Lifeportal Ta et skjermbilde (Print your S...

UiO : University of Analyze Data Workflow Shared Data Visualization Admin ProjectAdmin Reports Apply for a project Help User Using 8.9 MB

Tools

search tools

Import files

Export files

Tests

Bioportal Phylogeny Tools

R

Autodock

UiO tools

Gaussian

NCBI BLAST+

Text Manipulation

Filter and Sort

Join, Subtract and Group

Convert Formats

Extract Features

DeFuse

Bismark

Fetch Sequences

Operate on Genomic Intervals

Metagenomic analyses

Statistics

BEDTools

Graph/Display Data

FASTA manipulation

About the Lifeportal

Lifeportal gives you easy access to the High Performance Computing cluster Abel at the University of Oslo. The Galaxy based Lifeportal has a continuously growing list of services, and among them the most widely used tools from the former Bioportal.

[More about Lifeportal](#)

Partners

UiO : Universitetet i Oslo

Norwegian Bioinformatics Platform

UNINETT Sigma

Galaxy

MLSLiO Molecular Life Science

History

imported: Galaxy101-A1
8.7 MB

11: bhm.png

10: Compare two Datasets on data 7 and data 1

9: Compare two Datasets on data 7 and data 1

7: Select first on data 6

6: Sort on data 5

5: Group on data 3

3: Join on data 2 and data 1

2: SNPs

1: Exons

Project application

search tools

Import files

Export files

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[More about Lifeportal](#)

Partners



UiO : Universitetet i Oslo



Norwegian
Bioinformatics Platform



Congratulations! You are a project administrator (manager)

History

imported: Galaxy101-A1

8.7 MB

11: bhm.png

10: Compare two Datasets on data 7 and data 1

9: Compare two Datasets




on data 7 and data 1

7: Select first on data 6   

6: Sort on data 5 5: Group on data 3   

3: Join on data 2 and data   

2: SNPs

1: Exons   

[←](#)
[→](#)
https://galaxy-test.uio.no/project_admin

Certificate error

Lifeportal

Ta et skjermbilde (Print your S...

UiO : University of Oslo

Analyze Data Workflow Shared Data Visualization Admin ProjectAdmin Apply for a project Help User

Using 20.5 MB

Lifeportal

Project Administration

Users

- Manage users

Projects

- Manage projects
- Show pending projects
- Show rejected projects

Lifeportal Project Administration

You own the following projects in the Lifeportal

Your Lifeportal projects list

	Project name	Users	Active	Amount	Description
<input type="radio"/>	lp24	MEMBERS support@feide.no	False	0.00	test94
<input type="radio"/>	lp28	MEMBERS support@feide.no	True	0.00	reportproject
<input type="radio"/>	lp31	MEMBERS support@feide.no	True	999.93	ApprTest1

Display project usage

Generate report page

Deactivate project

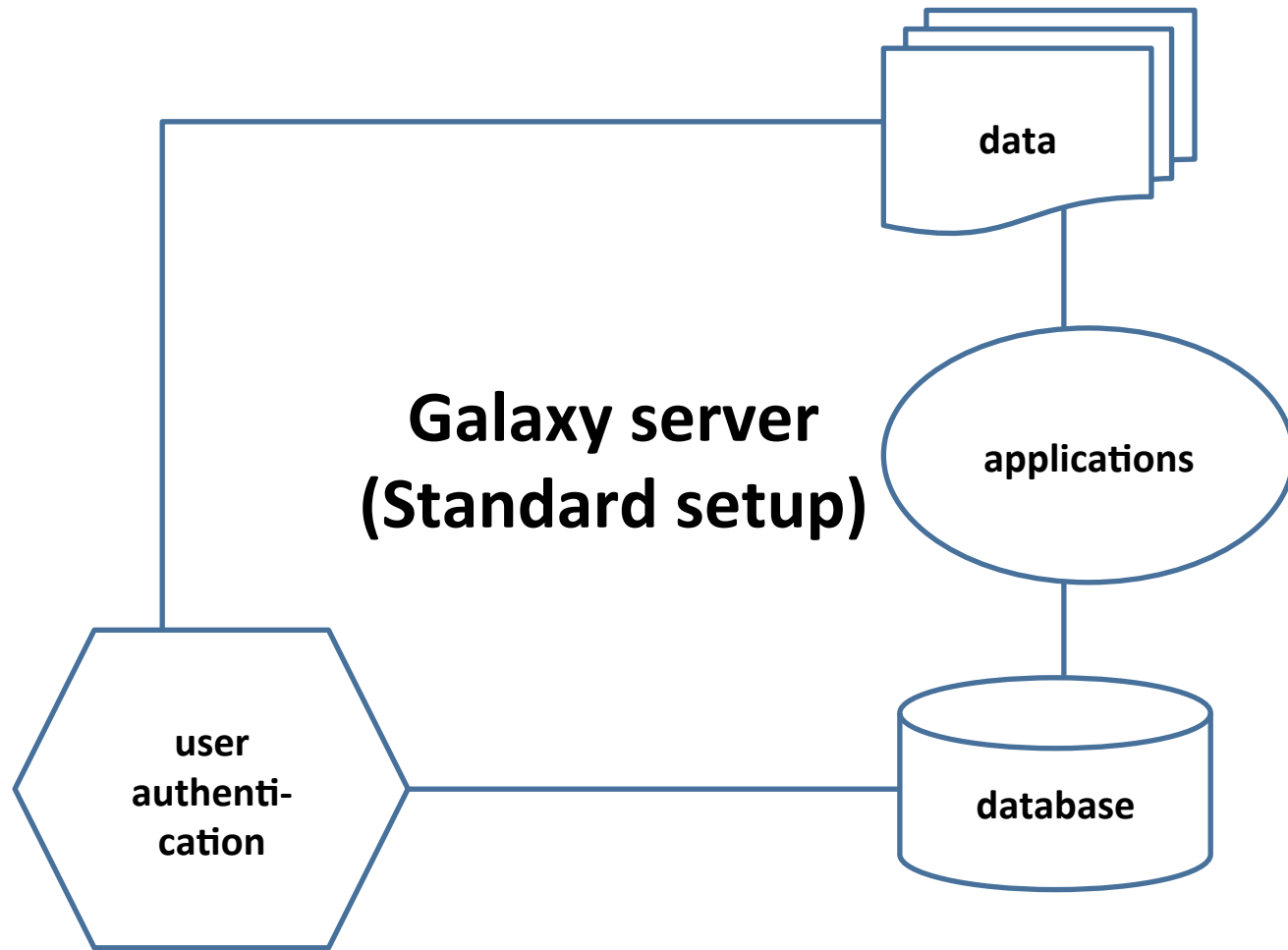
See the list of *your* projects

For 2 selected items: Associate to project

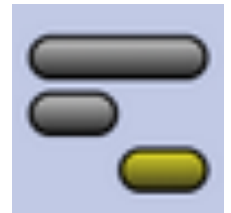
```
--select--
lp24
lp28
```

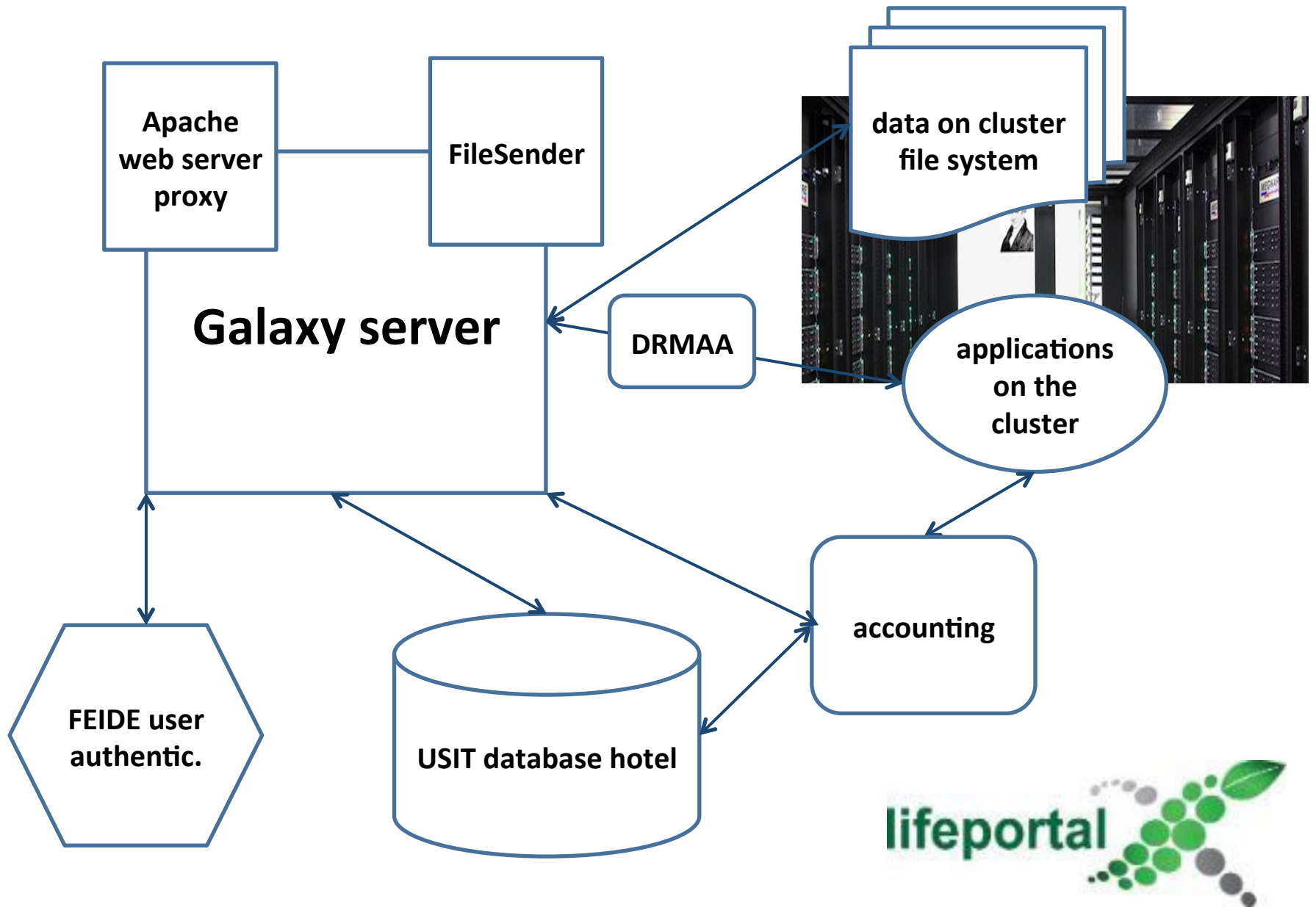

Lifeportal features : cluster jobs

- Cluster jobs
 - Users input is minimal
 - Galaxy platform uses the potential of a powerful cluster



galaxyproject.org





History

- Bioportal
 - started 2005
 - home-grown from scratch
 - world-wide user base
- Lifeportal
 - opening October 2013 (just 13 months)
 - about 200 users registered
 - more than 50 projects
 - continuously adding new features and tools



Lifeportal vs. Galaxy

	Lifeportal	'Own' Galaxy Instance
Easy access	yes	yes
Support	Well trained helpdesk	-
Collaboration	FEIDE + projects	Limited
Scalability	Abel (10000+ cores)	Depends on your credit card
Customizations	In-house + synergies with emerging portals	Depends on your system level programming skills
Costs	free	Admin, Compute +Storage+Network, Support, Customizations



© iftools.com

Roadmap

- Synchronizing code bases & faster upgrades
 - bulk operations, ...
- Deploying dedicated hardware
 - faster turn-around time for short / small tasks
 - better response time of the frontend
 - improved performance for data transfers

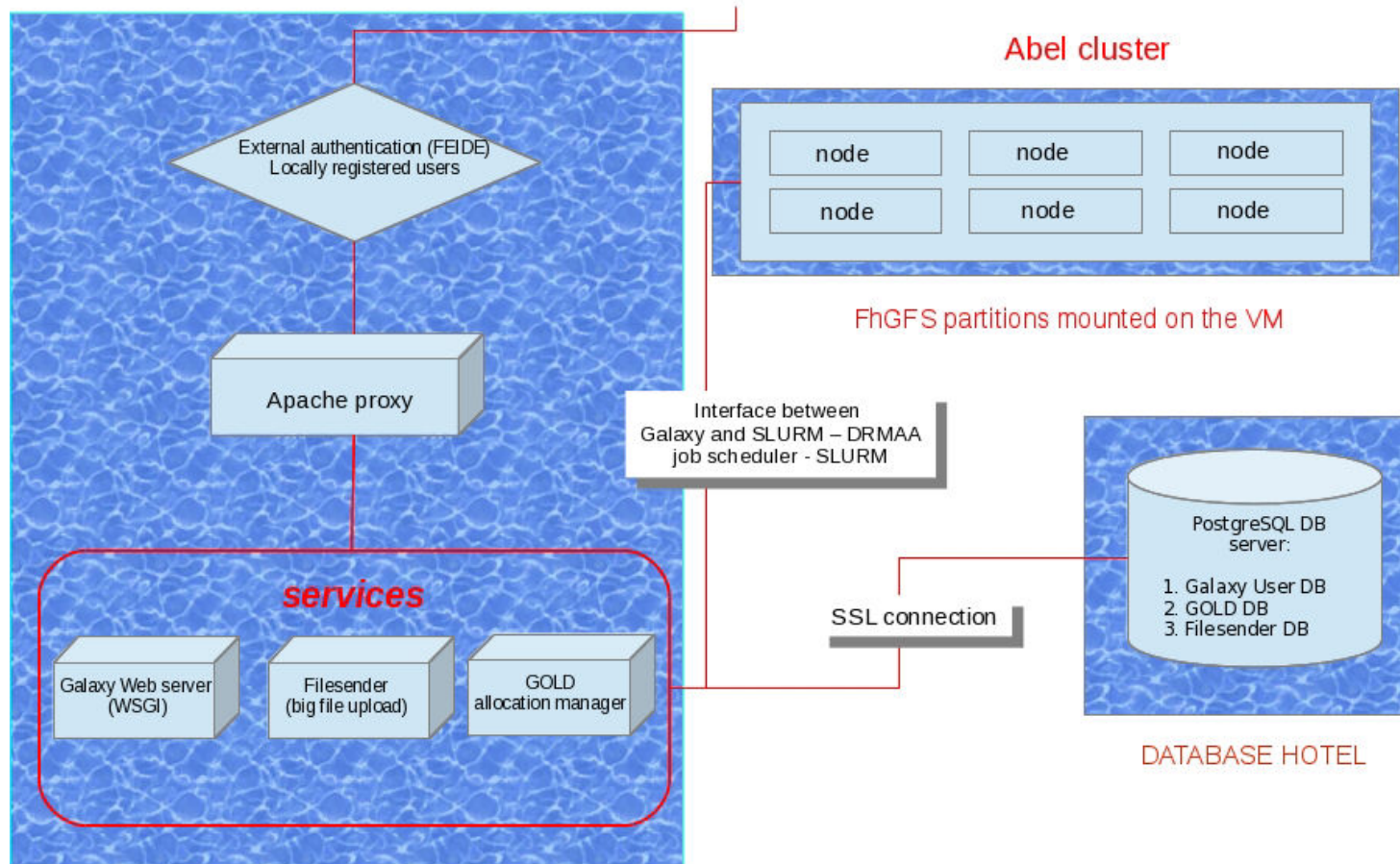
Making Lifeportal even better

- Lifeportal is great for beginners, but not only for them !
- Opportunities
 - enhancing the service (simpler, richer capabilities, more tools)
 - funding via Sigma2
- Looking forward to your ideas / requirements
 - try and use Lifeportal
 - challenge us with features to add and improve

Summary

- Lifeportal
 - easy, flexible, powerful service
 - sharing, reproducibility
 - support
- Roadmap
 - several significant improvements coming
- USIT / ITF is committed to work with you to make the Lifeportal even better !

Lifeportal Architecture



Tools

Import files

- Upload File from your computer
- Big File Upload filesender server
- Get files from NeLS storage

Export files

Tests

Bioportal Phylogeny Tools

R

Autodock

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NCBI BLAST+

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Graph/Display Data

FASTA manipulation

NGS: GATK2

NGS: Picard (beta)

NGS: Trim Galore

Upload File (version 1.1.3)

File Format:

Auto-detect

Which format? See help below

File:

M:\Desktop\unknow.fas Browse...

TIP: Due to browser limitations, uploading files larger than 2GB is guaranteed to fail. To upload large files, use the URL method (below) or FTP (if enabled by the site administrator).

URL/Text:

Here you may specify a list of URLs (one per line) or paste the contents of a file.

Convert spaces to tabs:

☐ Yes

Use this option if you are entering intervals by hand.

Genome:

----- Additional Species Are Below -----

Execute

Auto-detect

The system will attempt to detect Axt, Fasta, Fastqsolexa, Gff, Gff3, Html, Lav, Maf, Tabular, Wiggle, Bed and Interval (Bed with headers) formats. If your file is not detected properly as one of the known formats, it most likely means that it has some format problems (e.g., different number of columns on different rows). You can still coerce the system to set your data to the format you think it should be. You can also upload compressed files, which will automatically be decompressed.

Ab1

A binary sequence file in 'ab1' format with a '.ab1' file extension. You must manually select this 'File Format' when uploading the file.

Axt

blast pairwise alignment format. Each alignment block in an axt file contains three lines: a summary line and 2 sequence

History

Unnamed history

0 bytes

Your history is empty. Click 'Get Data' on the left pane to start

Tools

-
- Import files**
- Upload File from your computer
 - Big File Upload filesender server
 - Get files from NeLS storage
- Export files**
- Tests**
- Bioportal Phylogeny Tools**
- R**
- Autodock**
- UiO tools**
- Gaussian**
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- NGS: GATK2**
- NGS: Picard (beta)**
- NGS: Trim Calore**



Your upload has been queued. History entries that are still uploading will be blue, and turn green upon completion.

Please do not use your browser's "stop" or "reload" buttons until the upload is complete, or it may be interrupted.

You may safely continue to use Galaxy while the upload is in progress. Using "stop" and "reload" on pages other than Galaxy is also safe.

History



unknown fasq

0 bytes



1: unknow.fastq



Tools

fastq

Convert Formats

- FASTQ to FASTA converter

NGS: Assembly

NEWBLER

- Sff to Fastq Converter

NGS: QC and manipulation

FASTQC: FASTQ/SAM/BAM

- FastQC:Read QC reports using FastQC

ILLUMINA FASTQ

- FASTQ Groomer convert between various FASTQ quality formats

- FASTQ splitter on joined paired end reads

- FASTQ joiner on paired end reads

- FASTQ Summary Statistics by column

ROCHE-454 DATA

- Combine FASTA and QUAL into FASTQ

GENERIC FASTQ MANIPULATION

- Filter FASTQ reads by quality score and length

- FASTQ Trimmer by column

- FASTQ Quality Trimmer by sliding window

- FASTQ Masker by quality

FastQC:Read QC (version 0.10.1)

Short read data from your current history:

1: unknow.fastq

Formats: fastqsanger,fastq,bam,sam.

Title for the output file - to remind you what the job was for:

FastQC

Letters and numbers only please - other characters will be removed

Contaminant list:

Selection is Optional

tab delimited file with 2 columns: name and sequence. For example: Illumina Small RNA RT Primer CAAGCAGAAGACGGCATACGA. Format: tabular.

JOB PARAMETERS

Projects/Accounts

You have logged as user : *katerina.michalickova@usit.uio.no*. Please select the project (account) where you will be running your current job.

You have 198.18 cpu hours remaining in your Lifeportal test project (gx_default)!

staff

Number of tasks

Enter the number of tasks for the current job.
(Enter 1, if not sure.)

1

Number of tasks per node

Enter the number of tasks per node (max 16).
(Leave 1, if not sure.)

1

Walltime (job duration)

Select how long the job shall be running :

DD: 00 HH: 2 MM: 00
SC: 00

Memory per CPU

Select how much memory you need for the job
(the allowed format is digit+Gb/Mb, e.g. 16GB or 3000Mb):

4Gb

Execute

Purpose

FastQC aims to provide a simple way to do some quality control checks on raw sequence data coming from high throughput sequencing pipelines. It provides a modular set of analyses which you can use to give a quick impression of whether your

History

unknown fasq

0 bytes

1: unknow.fastq

Tools

fastq

Convert Formats

- FASTQ to FASTA converter

NGS: Assembly

NEWBLER

- Sff to Fastq Converter

NGS: QC and manipulation

FASTQC: FASTQ/SAM/BAM

- FastQC:Read QC reports using FastQC

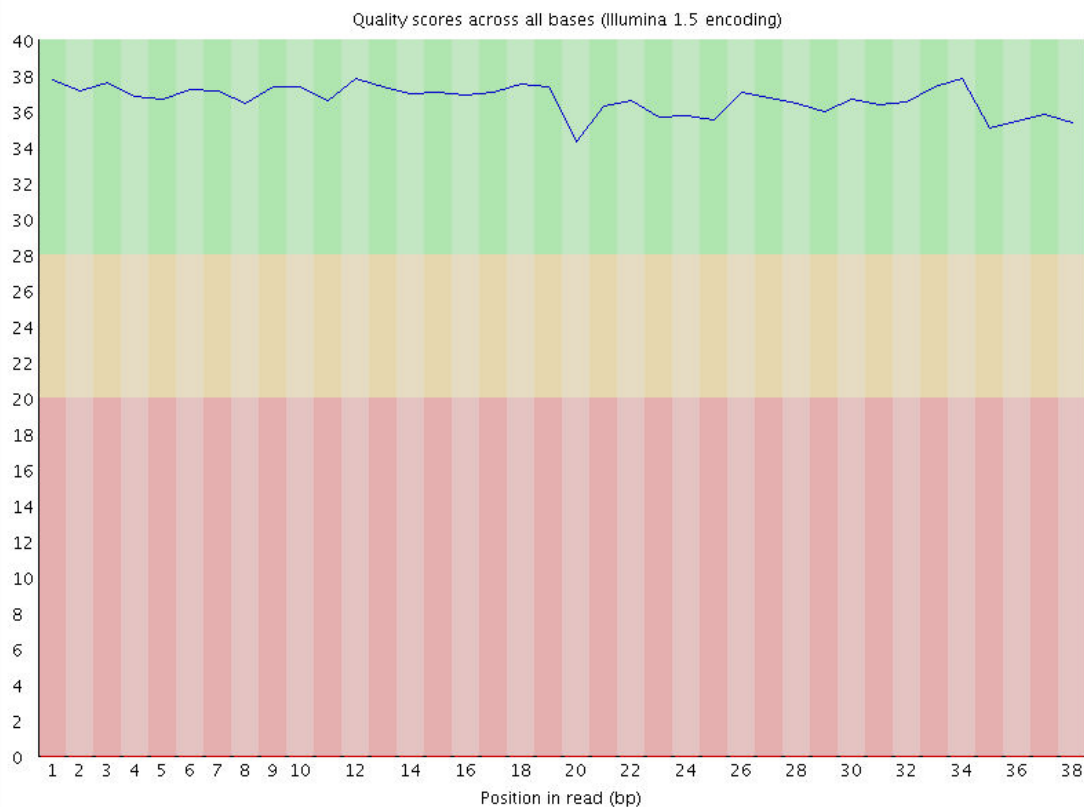
ILLUMINA FASTQ

- FASTQ Groomer convert between various FASTQ quality formats
- FASTQ splitter on joined paired end reads
- FASTQ joiner on paired end reads
- FASTQ Summary Statistics by column
- ROCHE-454 DATA
- Combine FASTA and QUAL into FASTQ
- GENERIC FASTQ MANIPULATION
- Filter FASTQ reads by quality score and length
- FASTQ Trimmer by column
- FASTQ Quality Trimmer by sliding window
- FASTQ Masker by quality

Sequence length 38

%GC 37

Per base sequence quality



History

unknown fasq

3.7 KB

2:

FastQC unknow.fastq.html

1: unknow.fastq

Tools

fastq

Convert Formats

- FASTQ to FASTA converter

NGS: Assembly

NEWBLER

- Sff to Fastq Converter

NGS: QC and manipulation

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- FASTQ Trimmer by column

- FASTQ Quality Trimmer by sliding window

- FASTQ Masker by quality score

<http://www.uio.no/english/>

FASTQ to FASTA (version 1.0.0)

FASTQ file to convert:

1: unknow.fastq ▾

JOB PARAMETERS

Projects/Accounts

You have logged as user : *katerina.michalickova@usit.uio.no*. Please select the project (account) where you will be running your current job.

You have **198.18** cpu hours remaining in your Lifeportal test project (gx_default)!

staff ▾

Number of tasks

Enter the number of tasks for the current job.
(Enter 1, if not sure.)

1

Number of tasks per node

Enter the number of tasks per node
(max 16).
(Leave 1, if not sure.)

1

Walltime (job duration)

Select how long the job shall be running :

DD: 00 HH: 2 MM: 00

SC: 00

Memory per CPU

Select how much memory you need for the job
(the allowed format is digit+G/Mb, e.g. 16GB or 3000Mb):

4Gb

Execute

What it does

This tool converts FASTQ sequencing reads to FASTA sequences.

Citation

If you use this tool, please cite [Blankenberg D, Gordon A, Von Kuster G, Coraor N, Taylor J, Nekrutenko A; Galaxy Team. Manipulation of FASTQ data with Galaxy. Bioinformatics. 2010 Jul 15;26\(14\):1783-5.](#)

History

unknown fastq

571.3 KB

2:

FastQC unknow.fastq.html

1:

unknow.fastq

Tools

fastq

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NGS: Assembly

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GENERIC FASTQ MANIPULATION

- Filter FASTQ reads by quality score and length

- FASTQ Trimmer by column

- FASTQ Quality Trimmer by sliding window

- FASTQ Masker by quality

```
>HWI-EAS210R_0001:6:1:3:663#CGATGT/1
TGTTCCTATTGGACCAAGAGGAGGATTTAGTGAAGAAG
>HWI-EAS210R_0001:6:1:3:80#CGATGT/1
AAGTACTGTCTGGATCATTNCCCGTATAAGTCATAATA
>HWI-EAS210R_0001:6:1:3:1990#CGATGT/1
CTGAACGAATACCAGGGCCATTATCTTCAACAGTTAGG
>HWI-EAS210R_0001:6:1:3:1375#CGATGT/1
GCTCTTGATGGTACGATTGGCTGCATGGTAAATGGTGC
>HWI-EAS210R_0001:6:1:3:983#CGATGT/1
TTTGATTTCAATTTTGGCAAATATTAAATGATCACTCT
>HWI-EAS210R_0001:6:1:3:1903#CGATGT/1
TTGAAATATTTTCTCTAATTTTGTCTATGTTCCATC
>HWI-EAS210R_0001:6:1:4:911#CGATGT/1
TTCCGATCAAACCTGGAAGTGTATTGATAAAGACGT
>HWI-EAS210R_0001:6:1:4:628#CGATGT/1
TAGTTAAGGCTGTTTTGACAGATGAGTCGTGTTACGAG
>HWI-EAS210R_0001:6:1:4:899#CGATGT/1
TACACCTGAGAGAACACGAACCCCTTCACCTTTGTTAA
>HWI-EAS210R_0001:6:1:4:1768#CGATGT/1
GTGGTATAAAATATAATATTTCCAATGGTGGTCCGGCG
>HWI-EAS210R_0001:6:1:4:834#CGATGT/1
ATACAGTTAAATAAAATCACCTTATCTTGTGATTATT
>HWI-EAS210R_0001:6:1:4:1423#CGATGT/1
GCGGAGGCAGAAAGCTAAGTGTGATGGGGTATGTAAT
>HWI-EAS210R_0001:6:1:4:930#CGATGT/1
TTTCTTTACATACTGCGTTGGGAATACAATTTTATTTT
>HWI-EAS210R_0001:6:1:4:596#CGATGT/1
AGATGCACCATCACAAGCTTCAGCCAAAAGTTCAAGCT
>HWI-EAS210R_0001:6:1:4:1572#CGATGT/1
TGTCTCTACCTTTCTGTTGTATATAATCAATGGCAGCC
>HWI-EAS210R_0001:6:1:4:1362#CGATGT/1
GCCTTTGAAATACTAGAGCACAAGTTTGTAAAAATAAA
>HWI-EAS210R_0001:6:1:4:1868#CGATGT/1
ATGATTCAAAAAACACGTTATGTGTAAATTAAGGTT
>HWI-EAS210R_0001:6:1:4:757#CGATGT/1
TAGAAAAACTCTTGAATCGGCGATCGCAATGCGGAAA
>HWI-EAS210R_0001:6:1:5:394#CGATGT/1
AAAAAGAAGCACGCTGTACTTGCCGTTCTTCTTCAGAA
>HWI-EAS210R_0001:6:1:5:352#CGATGT/1
CAGGCTATACAATGGTTAAGAAAAACTGGTTTAAATGGC
>HWI-EAS210R_0001:6:1:5:645#CGATGT/1
TCTGGTGCGATTGTTTCAAGGCTGCAAGCATAGCCCGTG
>HWI-EAS210R_0001:6:1:5:509#CGATGT/1
TTTTACAAAATCCACCGTAATTTTCTATCCTCCTCTC
>HWI-EAS210R_0001:6:1:5:339#CGATGT/1
TGTGGGCAAGTATGAGCTTGCCCACTTAGACGGCGC
>HWI-EAS210R_0001:6:1:5:714#CGATGT/1
TATGTTTTAGAAAACAATCCCGCGTAGCAATTTTATAG
>HWI-EAS210R_0001:6:1:5:1568#CGATGT/1
AAAGGCGATTATACCACTAATTCCTCCCGCTAAAAAT
```

<https://lifeportal.uio.no/datasets/b368d6a5b20fc90e/display>

History

unknown fasq

573.2 KB

4: FASTQ to FASTA on data 1

2: FastQC unknow.fastq.html

1: unknow.fastq

Tools

NCBI BLAST+

- [NCBI BLAST+ blastn](#) Search nucleotide database with nucleotide query sequence(s)
- [NCBI BLAST+ blastp](#) Search protein database with protein query sequence(s)
- [NCBI BLAST+ blastx](#) Search protein database with translated nucleotide query sequence(s)
- [NCBI BLAST+ tblastn](#) Search translated nucleotide database with protein query sequence(s)
- [NCBI BLAST+ tblastx](#) Search translated nucleotide database with translated nucleotide query sequence(s)
- [BLAST XML to tabular](#) Convert BLAST XML output to tabular

MERG NCBI BLAST+

- [NCBI BLAST+ blastn](#) Search nucleotide database with nucleotide query sequence(s)
- [NCBI BLAST+ blastp](#) Search protein database with protein query sequence(s)
- [NCBI BLAST+ blastx](#) Search protein database with translated nucleotide query sequence(s)
- [NCBI BLAST+ tblastn](#) Search translated nucleotide database with protein query sequence

NCBI BLAST+ blastn (version 0.0.10)

Nucleotide query sequence(s):

4: FASTQ to FASTA on data 1

Subject database/sequences:

BLAST Database

Nucleotide BLAST database:

Vector sequences

Type of BLAST:

- ☐ megablast
☐ blastn
☒ blastn-short
☐ dc-megablast

Set expectation value cutoff:

0.001

Output format:

Tabular (standard 12 columns)

Advanced Options:

Hide Advanced Options

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(Leave 1, if not sure.)

Walltime (job duration)

Select how long the job shall be running :

Memory per CPU

Select how much memory you need for the job
(the allowed format is digit+K/M/G, e.g. 16GB or 3000Mb):

Tools

blast

NCBI BLAST+

- [NCBI BLAST+ blastn](#) Search nucleotide database with nucleotide query sequence(s)
- [NCBI BLAST+ blastp](#) Search protein database with protein query sequence(s)
- [NCBI BLAST+ blastx](#) Search protein database with translated nucleotide query sequence(s)
- [NCBI BLAST+ tblastn](#) Search translated nucleotide database with protein query sequence (s)
- [NCBI BLAST+ tblastx](#) Search translated nucleotide database with translated nucleotide query sequence(s)
- [BLAST XML to tabular](#) Convert BLAST XML output to tabular

MERG NCBI BLAST+

- [NCBI BLAST+ blastn](#) Search nucleotide database with nucleotide query sequence(s)
- [NCBI BLAST+ blastp](#) Search protein database with protein query sequence(s)
- [NCBI BLAST+ blastx](#) Search protein database with translated nucleotide query sequence(s)
- [NCBI BLAST+ tblastn](#) Search translated nucleotide database with protein query sequence

History

unknown fastq

573.2 KB

5: blastn-short on db

empty
format: tabular, database: 2
Starting job 8994807 ("") on c2-11 at Tue Nov 18 13:25:17 CET 2014 Job script resource usage: JobID MaxVMSize MaxRSS ----- 8994807.bat+ 393700K 14312K Job step resource usage: JobID JobName

no peek

4: FASTQ to FASTA on data 1

2: FastQC unknow.fastq.html

1: unknow.fastq

Tools

blast

NCBI BLAST+

- [NCBI BLAST+ blastn](#) Search nucleotide database with nucleotide query sequence(s)
- [NCBI BLAST+ blastp](#) Search protein database with protein query sequence(s)
- [NCBI BLAST+ blastx](#) Search protein database with translated nucleotide query sequence(s)
- [NCBI BLAST+ tblastn](#) Search translated nucleotide database with protein query sequence (s)
- [NCBI BLAST+ tblastx](#) Search translated nucleotide database with translated nucleotide query sequence(s)
- [BLAST XML to tabular](#) Convert BLAST XML output to tabular

MERG NCBI BLAST+

- [NCBI BLAST+ blastn](#) Search nucleotide database with nucleotide query sequence(s)
- [NCBI BLAST+ blastp](#) Search protein database with protein query sequence(s)
- [NCBI BLAST+ blastx](#) Search protein database with translated nucleotide query sequence(s)
- [NCBI BLAST+ tblastn](#) Search translated nucleotide database with protein query sequence

HWI-EAS210R_0001:6:1:3:663#CGATGT/1	gi 631775977 emb HG977196.1	94.74	38	2	0	1	38	2609
HWI-EAS210R_0001:6:1:3:663#CGATGT/1	gi 319408070 emb FN645507.1	94.74	38	2	0	1	38	5298
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi 631775378 emb HG977193.1	97.37	38	1	0	1	38	13665
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi 319407874 emb FN645506.1	97.37	38	1	0	1	38	6890
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi 120613812 gb CP000524.1	97.22	36	1	0	1	36	138772
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi 12830427 emb AJ300267.1	97.22	36	1	0	1	36	267
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi 451900696 gb CP003124.1	100.00	30	0	0	1	30	7163
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi 451899431 gb CP003123.1	94.44	36	2	0	1	36	7755
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi 319404914 emb FN645468.1	94.44	36	2	0	1	36	6721
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi 319402157 emb FN645454.1	94.44	36	2	0	1	36	6930
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi 605047917 emb HG969191.1	96.67	30	1	0	1	30	8308
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi 603661026 emb HG965802.1	96.67	30	1	0	1	30	8306
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi 403232004 gb CP003784.1	96.67	30	1	0	1	30	7479
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi 319420253 gb CP002453.1	100.00	26	0	0	7	32	314115
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi 240266805 gb CP001562.1	96.67	30	1	0	1	30	8091
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi 49239191 emb BX897700.1	96.67	30	1	0	1	30	7486
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi 49237636 emb BX897699.1	96.67	30	1	0	1	30	8305
HWI-EAS210R_0001:6:1:3:1375#CGATGT/1	gi 631775692 emb HG977194.1	100.00	38	0	0	1	38	17268
HWI-EAS210R_0001:6:1:3:1375#CGATGT/1	gi 631775378 emb HG977193.1	100.00	38	0	0	1	38	22237
HWI-EAS210R_0001:6:1:3:1375#CGATGT/1	gi 319409085 emb FN645524.1	100.00	38	0	0	1	38	36055
HWI-EAS210R_0001:6:1:3:1375#CGATGT/1	gi 120613812 gb CP000524.1	97.37	38	1	0	1	38	2547
HWI-EAS210R_0001:6:1:3:1375#CGATGT/1	gi 403232004 gb CP003784.1	92.11	38	3	0	1	38	157054
HWI-EAS210R_0001:6:1:3:1375#CGATGT/1	gi 240266805 gb CP001562.1	92.11	38	3	0	1	38	232293
HWI-EAS210R_0001:6:1:3:1375#CGATGT/1	gi 49239191 emb BX897700.1	92.11	38	3	0	1	38	156427
HWI-EAS210R_0001:6:1:3:983#CGATGT/1	gi 631775378 emb HG977193.1	100.00	38	0	0	1	38	15114
HWI-EAS210R_0001:6:1:3:983#CGATGT/1	gi 319407874 emb FN645506.1	100.00	38	0	0	1	38	5439
HWI-EAS210R_0001:6:1:3:983#CGATGT/1	gi 120613812 gb CP000524.1	97.06	34	1	0	1	34	140035
HWI-EAS210R_0001:6:1:3:983#CGATGT/1	gi 319406400 emb FN645486.1	100.00	28	0	0	5	32	5489
HWI-EAS210R_0001:6:1:3:1903#CGATGT/1	gi 631775977 emb HG977196.1	94.44	36	2	0	3	38	37858
HWI-EAS210R_0001:6:1:3:1903#CGATGT/1	gi 319408070 emb FN645507.1	94.44	36	2	0	3	38	38101
HWI-EAS210R_0001:6:1:4:911#CGATGT/1	gi 631775977 emb HG977196.1	97.37	38	1	0	1	38	44096
HWI-EAS210R_0001:6:1:4:911#CGATGT/1	gi 319408070 emb FN645507.1	97.37	38	1	0	1	38	43987
HWI-EAS210R_0001:6:1:4:911#CGATGT/1	gi 49239191 emb BX897700.1	96.67	30	1	0	9	38	66361
HWI-EAS210R_0001:6:1:4:628#CGATGT/1	gi 631775977 emb HG977196.1	100.00	37	0	0	1	37	80166
HWI-EAS210R_0001:6:1:4:628#CGATGT/1	gi 319408492 emb FN645509.1	100.00	37	0	0	1	37	33256
HWI-EAS210R_0001:6:1:4:1768#CGATGT/1	gi 631776795 emb HG977197.1	97.30	37	1	0	1	37	6240
HWI-EAS210R_0001:6:1:4:1768#CGATGT/1	gi 319409085 emb FN645524.1	97.30	37	1	0	1	37	12821

History

unknown fasq

579.9 KB

[6: blastn-short on db](#)

[5: blastn-short on db](#)

[4: FASTQ to FASTA on data 1](#)

[2: FastQC unknow.fastq.html](#)

[1: unknow.fastq](#)

Tools

convert

NCBI BLAST+

- BLAST XML to tabular Convert BLAST XML output to tabular

MERG NCBI BLAST+

- BLAST XML to tabular Convert BLAST XML output to tabular

Text Manipulation

- Convert delimiters to TAB

Convert Formats

- AXT to concatenated FASTA** Converts an AXT formatted file to a concatenated FASTA alignment
- AXT to FASTA** Converts an AXT formatted file to FASTA format
- BED-to-GFF converter**
- FASTA-to-Tabular converter**
- GFF-to-BED converter**
- LAV to BED** Converts a LAV formatted file to BED format
- Maf to BED** Converts a MAF formatted file to the BED format
- MAF to Interval** Converts a MAF formatted file to the Interval format
- MAF to FASTA** Converts a MAF formatted file to FASTA format
- Tabular-to-FASTA** converts tabular file to FASTA format
- FASTQ to FASTA converter**

Convert (version 1.0.0)

Convert all:

Pipes

in Dataset:

6: blastn-short on db

JOB PARAMETERS

Projects/Accounts

You have logged as user : **katerina.michalickova@usit.uio.no**. Please select the project (account) where you will be running your current job.

You have **198.18** cpu hours remaining in your Lifeportal test project (gx_default)!

staff

Number of tasks

Enter the number of tasks for the current job.
(Enter 1, if not sure.)

1

Number of tasks per node

Enter the number of tasks per node (max 16).
(Leave 1, if not sure.)

1

Walltime (job duration)

Select how long the job shall be running :

DD: 00 HH: 2 MM: 00 SC: 00

Memory per CPU

Select how much memory you need for the job
(the allowed format is digit+GB/Mb, e.g. 16GB or 3000Mb):

4Gb

Execute

What it does

Converts all delimiters of a specified type into TABs. Consecutive characters are condensed. For example, if columns are separated by 5 spaces they will be converted into 1 tab.

Example

Input file:

```
chrX|151283558|151283724|NM_000808_exon_8_0_chrX_151283559_r|0|-
chrX|151370273|151370486|NM_000808_exon_9_0_chrX_151370274_r|0|-
chrX|151559494|151559583|NM_018558_exon_1_0_chrX_151559495_f|0|+
```

History

unknown fasq

579.9 KB

6: blastn-short on db

5: blastn-short on db

4: FASTQ to FASTA on data 1

2: FastQC unknown.fastq.html

1: unknown.fastq

Tools

convert

NCBI BLAST+

- BLAST XML to tabular Convert BLAST XML output to tabular

MERG NCBI BLAST+

- BLAST XML to tabular Convert BLAST XML output to tabular

Text Manipulation

- Convert delimiters to TAB

Convert Formats

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 Converts an AXT formatted file to a concatenated FASTA alignment
- AXT to FASTA** Converts an AXT formatted file to FASTA format
- BED-to-GFF** converter
- FASTA-to-Tabular** converter
- GFF-to-BED** converter
- LAV to BED** Converts a LAV formatted file to BED format
- MAF to BED** Converts a MAF formatted file to the BED format
- MAF to Interval** Converts a MAF formatted file to the Interval format
- MAF to FASTA** Converts a MAF formatted file to FASTA format
- Tabular-to-FASTA** converts tabular file to FASTA format
- FASTQ to FASTA** converter

HWI-EAS210R_0001:6:1:3:663#CGATGT/1	gi	631775977	emb	HG977196.1	94.74	38	2	0	1	38	26097	26134
HWI-EAS210R_0001:6:1:3:663#CGATGT/1	gi	319408070	emb	FN645507.1	94.74	38	2	0	1	38	52982	53019
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi	631775378	emb	HG977193.1	97.37	38	1	0	1	38	136652	136615
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi	319407874	emb	FN645506.1	97.37	38	1	0	1	38	68902	68939
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi	120613812	gb	CP000524.1	97.22	36	1	0	1	36	1387721	1387686
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi	12830427	emb	AJ300267.1	97.22	36	1	0	1	36	2674	2639
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi	451900696	gb	CP003124.1	100.00	30	0	0	1	30	71637	71666
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi	451899431	gb	CP003123.1	94.44	36	2	0	1	36	77555	77590
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi	319404914	emb	FN645468.1	94.44	36	2	0	1	36	67217	67252
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi	319402157	emb	FN645454.1	94.44	36	2	0	1	36	69308	69343
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi	605047917	emb	HG969191.1	96.67	30	1	0	1	30	83080	83109
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi	603661026	emb	HG965802.1	96.67	30	1	0	1	30	83065	83094
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi	403232004	gb	CP003784.1	96.67	30	1	0	1	30	74792	74821
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi	319420253	gb	CP002453.1	100.00	26	0	0	7	32	3141152	3141177
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi	240266805	gb	CP001562.1	96.67	30	1	0	1	30	80917	80946
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi	49239191	emb	BX897700.1	96.67	30	1	0	1	30	74864	74893
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	gi	49237636	emb	BX897699.1	96.67	30	1	0	1	30	83050	83079
HWI-EAS210R_0001:6:1:3:1375#CGATGT/1	gi	631775692	emb	HG977194.1	100.00	38	0	0	1	38	172684	172647
HWI-EAS210R_0001:6:1:3:1375#CGATGT/1	gi	631775378	emb	HG977193.1	100.00	38	0	0	1	38	222377	222414
HWI-EAS210R_0001:6:1:3:1375#CGATGT/1	gi	319409085	emb	FN645524.1	100.00	38	0	0	1	38	360557	360520
HWI-EAS210R_0001:6:1:3:1375#CGATGT/1	gi	120613812	gb	CP000524.1	97.37	38	1	0	1	38	25473	25510
HWI-EAS210R_0001:6:1:3:1375#CGATGT/1	gi	403232004	gb	CP003784.1	92.11	38	3	0	1	38	1570544	1570507
HWI-EAS210R_0001:6:1:3:1375#CGATGT/1	gi	240266805	gb	CP001562.1	92.11	38	3	0	1	38	2322939	2322902
HWI-EAS210R_0001:6:1:3:1375#CGATGT/1	gi	49239191	emb	BX897700.1	92.11	38	3	0	1	38	1564272	1564235
HWI-EAS210R_0001:6:1:3:983#CGATGT/1	gi	631775378	emb	HG977193.1	100.00	38	0	0	1	38	151145	151182
HWI-EAS210R_0001:6:1:3:983#CGATGT/1	gi	319407874	emb	FN645506.1	100.00	38	0	0	1	38	54394	54357
HWI-EAS210R_0001:6:1:3:983#CGATGT/1	gi	120613812	gb	CP000524.1	97.06	34	1	0	1	34	1400357	1400390
HWI-EAS210R_0001:6:1:3:983#CGATGT/1	gi	319406400	emb	FN645486.1	100.00	28	0	0	5	32	54891	54864
HWI-EAS210R_0001:6:1:3:1903#CGATGT/1	gi	631775977	emb	HG977196.1	94.44	36	2	0	3	38	378589	378624
HWI-EAS210R_0001:6:1:3:1903#CGATGT/1	gi	319408070	emb	FN645507.1	94.44	36	2	0	3	38	381017	381052
HWI-EAS210R_0001:6:1:4:911#CGATGT/1	gi	631775977	emb	HG977196.1	97.37	38	1	0	1	38	440963	441000
HWI-EAS210R_0001:6:1:4:911#CGATGT/1	gi	319408070	emb	FN645507.1	97.37	38	1	0	1	38	439872	439909
HWI-EAS210R_0001:6:1:4:911#CGATGT/1	gi	49239191	emb	BX897700.1	96.67	30	1	0	9	38	663616	663645
HWI-EAS210R_0001:6:1:4:628#CGATGT/1	gi	631775977	emb	HG977196.1	100.00	37	0	0	1	37	801663	801627
HWI-EAS210R_0001:6:1:4:628#CGATGT/1	gi	319408492	emb	FN645509.1	100.00	37	0	0	1	37	332561	332525
HWI-EAS210R_0001:6:1:4:1768#CGATGT/1	gi	631776795	emb	HG977197.1	97.30	37	1	0	1	37	62402	62366
HWI-EAS210R_0001:6:1:4:1768#CGATGT/1	gi	319409085	emb	FN645524.1	97.30	37	1	0	1	37	128219	128183

History

unknown fasq

586.7 KB

7: Convert on data 6

6: blastn-short on db

5: blastn-short on db

4: FASTQ to FASTA on data 1

2: FastQC unknow.fastq.html

1: unknow.fastq

Tools

taxon

UiO tools

- [CLOTU](#) pipeline for processing and clustering of 454 amplicon reads into OTUs followed by taxonomic annotation

Metagenomic analyses

- [Fetch taxonomic representation](#)

Workflows

- [All workflows](#)

Fetch taxonomic representation (version 1.1.0)

Show taxonomic representation for:

7: Convert on data 6

GIs column:

c3

select column containing GI numbers

Name column:

c1

select column containing identifiers you want to include into output

JOB PARAMETERS

Projects/Accounts

You have logged as user : *katerina.michalickova@usit.uio.no*. Please select the project (account) where you will be running your current job.

You have 198.18 cpu hours remaining in your Lifeportal test project (gx_default)!

staff

Number of tasks

Enter the number of tasks for the current job.
(Enter 1, if not sure.)

1

Number of tasks per node

Enter the number of tasks per node (max 16).
(Leave 1, if not sure.)

1

Walltime (job duration)

Select how long the job shall be running :

DD: 00 HH: 2 MM: 00 SC: 00

Memory per CPU

Select how much memory you need for the job
(the allowed format is digit+G/Mb, e.g. 16GB or 3000Mb):

4Gb

Execute

i Use *Filter and Sort->Filter* to restrict output of this tool to desired taxonomic ranks. You can also use *Text Manipulation->Cut* to remove unwanted columns from the output.

What it does

History

unknown fasq

586.7 KB

7: Convert on data 6

6: blastn-short on db

5: blastn-short on db

4: FASTQ to FASTA on data 1

2: FastQC unknow.fastq.html

1: unknow.fastq

Tools	mily	Subfamily	Tribe	Subtribe	Genus	Subgenus	Species	Subspecies	
<input type="text" value="taxon"/>	Bartonellaceae	n	n	n	Bartonella	n	Bartonella bacilliformis	n	12830427
	Bartonellaceae	n	n	n	Bartonella	n	Bartonella henselae	n	49237636
UiO tools	Bartonellaceae	n	n	n	Bartonella	n	Bartonella henselae	n	49237636
▪ CLOTU pipeline for processing and clustering of 454 amplicon reads into OTUs followed by taxonomic annotation	Bartonellaceae	n	n	n	Bartonella	n	Bartonella quintana	n	49239191
	Bartonellaceae	n	n	n	Bartonella	n	Bartonella quintana	n	49239191
	Bartonellaceae	n	n	n	Bartonella	n	Bartonella quintana	n	49239191
Metagenomic analyses	Bartonellaceae	n	n	n	Bartonella	n	Bartonella quintana	n	49239191
▪ Fetch taxonomic representation	Bartonellaceae	n	n	n	Bartonella	n	Bartonella quintana	n	49239191
	Moraxellaceae	n	n	n	Psychrobacter	n	Psychrobacter arcticus	n	71037566
	Moraxellaceae	n	n	n	Psychrobacter	n	Psychrobacter cryohalolentis	n	92392509
Workflows	Bartonellaceae	n	n	n	Bartonella	n	Bartonella bacilliformis	n	120613812
▪ All workflows	Bartonellaceae	n	n	n	Bartonella	n	Bartonella bacilliformis	n	120613812
	Bartonellaceae	n	n	n	Bartonella	n	Bartonella bacilliformis	n	120613812
	Bartonellaceae	n	n	n	Bartonella	n	Bartonella bacilliformis	n	120613812
	Bartonellaceae	n	n	n	Bartonella	n	Bartonella bacilliformis	n	120613812
	Moraxellaceae	n	n	n	Psychrobacter	n	Psychrobacter sp. PRwf-1	n	148570901
	Bartonellaceae	n	n	n	Bartonella	n	Bartonella grahamii	n	240266805
	Bartonellaceae	n	n	n	Bartonella	n	Bartonella grahamii	n	240266805
	Bartonellaceae	n	n	n	Bartonella	n	Bartonella grahamii	n	240266805
	Bartonellaceae	n	n	n	Bartonella	n	Bartonella clarridgeiae	n	319402157
	Bartonellaceae	n	n	n	Bartonella	n	Bartonella sp. AR 15-3	n	319404914
	Bartonellaceae	n	n	n	Bartonella	n	Bartonella sp. AR 15-3	n	319406140
	Bartonellaceae	n	n	n	Bartonella	n	Bartonella sp. 1-1C	n	319406400
	Bartonellaceae	n	n	n	Bartonella	n	Bartonella schoenbuchensis	n	319407874
	Bartonellaceae	n	n	n	Bartonella	n	Bartonella schoenbuchensis	n	319407874
	Bartonellaceae	n	n	n	Bartonella	n	Bartonella schoenbuchensis	n	319408070
	Bartonellaceae	n	n	n	Bartonella	n	Bartonella schoenbuchensis	n	319408070
	Bartonellaceae	n	n	n	Bartonella	n	Bartonella schoenbuchensis	n	319408070
	Bartonellaceae	n	n	n	Bartonella	n	Bartonella schoenbuchensis	n	319408070
	Bartonellaceae	n	n	n	Bartonella	n	Bartonella schoenbuchensis	n	319408492
	Bartonellaceae	n	n	n	Bartonella	n	Bartonella schoenbuchensis	n	319408492
	Bartonellaceae	n	n	n	Bartonella	n	Bartonella schoenbuchensis	n	319408492
	Bartonellaceae	n	n	n	Bartonella	n	Bartonella schoenbuchensis	n	319409085
	Bartonellaceae	n	n	n	Bartonella	n	Bartonella schoenbuchensis	n	319409085
	Bartonellaceae	n	n	n	Bartonella	n	Bartonella schoenbuchensis	n	319409085
	Bartonellaceae	n	n	n	Bartonella	n	Bartonella schoenbuchensis	n	319409085
	Bartonellaceae	n	n	n	Bartonella	n	Bartonella schoenbuchensis	n	319409085
	Flavobacteriaceae	n	n	n	Cellulophaga	n	Cellulophaga algicola	n	319420253

History

unknown fasq

595.1 KB

9: Fetch taxonomic representation on data 7

44 lines

format: taxonomy, database: 2
Starting job 8994995 ("") on c2-3 at Tue Nov 18 13:42:49 CET 2014
Job script resource usage: JobID MaxVMSize MaxRSS -----
8994995.bat+
378284K 10176K Job step resource usage: JobID JobName A

1. Name

HWI-EAS210R_0001:6:1:3:1990#CGATGT/
HWI-EAS210R_0001:6:1:3:1990#CGATGT/
HWI-EAS210R_0001:6:1:3:1990#CGATGT/
HWI-EAS210R_0001:6:1:3:1990#CGATGT/
HWI-EAS210R_0001:6:1:3:1990#CGATGT/
HWI-EAS210R_0001:6:1:3:1990#CGATGT/
HWI-EAS210R_0001:6:1:4:911#CGATGT/1

7: Convert on data 6

64 lines

format: tabular, database: 2
Starting job 8994983 ("") on c2-3 at Tue Nov 18 13:38:15 CET 2014
Job script resource usage: JobID MaxVMSize MaxRSS -----
8994983.bat+
331856K 5836K Job step resource usage: JobID JobName A

Tools

taxon

Uio tools

- CLOTU pipeline for processing and clustering of 454 amplicon reads into OTUs followed by taxonomic annotation

Metagenomic analyses

- Fetch taxonomic representation

Workflows

- All workflows

Name	TaxID	Root	Superkingdom	Kingdom	Subkingdo	History
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	774	root	Bacteria	n	n	<div style="background-color: white; padding: 5px;">HISTORY LISTS Saved Histories Histories Shared with Me CURRENT HISTORY Create New Copy History Copy Datasets Share or Publish Extract Workflow Dataset Security Resume Paused Jobs Collapse Expanded Datasets Include Deleted Datasets Include Hidden Datasets Unhide Hidden Datasets Delete Hidden Datasets Purge Deleted Datasets Show Structure Export to File Delete Delete Permanently OTHER ACTIONS Import from File</div>
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	283166	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:5:352#CGATGT/1	283166	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:3:1375#CGATGT/1	283165	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	283165	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:4:911#CGATGT/1	283165	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:5:352#CGATGT/1	283165	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:5:352#CGATGT/1	259536	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:5:352#CGATGT/1	335284	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:3:1375#CGATGT/1	360095	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	360095	root	Bacteria	n	n	<div style="background-color: #e0ffe0; padding: 5px;">64 lines format: tabular, database: ? Starting job 8994983 ("") on c2-3 at Tue Nov 18 13:38:15 CET 2014 Job script resource usage: JobID MaxVMSize MaxRSS ----- ----- 8994983.bat+ 331856K 5836K Job step resource usage: JobID JobName A</div>
HWI-EAS210R_0001:6:1:3:983#CGATGT/1	360095	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:5:352#CGATGT/1	360095	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:5:645#CGATGT/1	360095	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:5:352#CGATGT/1	349106	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:3:1375#CGATGT/1	634504	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	634504	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:5:352#CGATGT/1	634504	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	696125	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	545617	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:5:352#CGATGT/1	545617	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:3:983#CGATGT/1	515256	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:3:1990#CGATGT/1	687861	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:3:983#CGATGT/1	687861	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:3:1903#CGATGT/1	687861	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:3:663#CGATGT/1	687861	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:4:911#CGATGT/1	687861	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:5:645#CGATGT/1	687861	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:4:628#CGATGT/1	687861	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:4:757#CGATGT/1	687861	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:5:509#CGATGT/1	687861	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:3:1375#CGATGT/1	687861	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:4:1768#CGATGT/1	687861	root	Bacteria	n	n	
HWI-EAS210R_0001:6:1:4:596#CGATGT/1	687861	root	Bacteria	n	n	

Tools

taxon

UiO tools

- [CLOTU](#) pipeline for processing and clustering of 454 amplicon reads into OTUs followed by taxonomic annotation

Metagenomic analyses

- [Fetch taxonomic representation](#)

Workflows

- [All workflows](#)

in gray.

Workflow name

unknown fasq

Create Workflow

Check all

Uncheck all

Tool

Upload File

This tool cannot be used in workflows

FastQC:Read QC

☒ Include "FastQC:Read QC" in workflow

FASTQ to FASTA

☒ Include "FASTQ to FASTA" in workflow

NCBI BLAST+ blastn

☒ Include "NCBI BLAST+ blastn" in workflow

NCBI BLAST+ blastn

☒ Include "NCBI BLAST+ blastn" in workflow

Convert

☒ Include "Convert" in workflow

Fetch taxonomic representation

☒ Include "Fetch taxonomic representation" in workflow

History items created

1: unknown.fastq

☐ Treat as input dataset

2: FastQC_unknown.fastq.html

4: FASTQ to FASTA on data 1

5: blastn-short on db

6: blastn-short on db

7: Convert on data 6

9: Fetch taxonomic representation on data 7

History

unknown fasq

595.1 KB

9: Fetch taxonomic representation on data 7

44 lines

format: taxonomy, database: ?
Starting job 8994995 ("") on c2-3 at Tue Nov 18 13:42:49 CET 2014
Job script resource usage: JobID MaxVMSize MaxRSS -----
----- 8994995.bat+ 378284K 10176K Job step resource usage: JobID JobName A

1. Name

HWI-EAS210R_0001:6:1:3:1990#CGATGT
HWI-EAS210R_0001:6:1:3:1990#CGATGT
HWI-EAS210R_0001:6:1:5:352#CGATGT/
HWI-EAS210R_0001:6:1:3:1375#CGATGT
HWI-EAS210R_0001:6:1:3:1990#CGATGT
HWI-EAS210R_0001:6:1:4:911#CGATGT/

7: Convert on data 6

64 lines

format: tabular, database: ?
Starting job 8994983 ("") on c2-3 at Tue Nov 18 13:38:15 CET 2014
Job script resource usage: JobID MaxVMSize MaxRSS -----
----- 8994983.bat+ 331856K 5836K Job step resource usage: JobID JobName A

Your workflows

 Create new workflow

 Upload or import workflow

Name	# of Steps
unknown fasq ▾	6
imported: match reads to an organism ▾	7
match reads to an organism ▾	7
Workflow constructed from history 'workflow_input' ▾	3
imported: Get ORF from mRNA WorkFlow ▾	3
RFK_Jan22 ▾	7
Workflow constructed from history 'kinase' ▾	2

Workflows shared with you by others

No workflows have been shared with you.

Other options

Configure your workflow menu

Your workflows

Create new workflow

Upload or import workflow

Name	# of Steps
unknown fasn ▾	6
im organism ▾	7
m ▾	7
W history 'workflow_input' ▾	3
im NA Workflow ▾	3
RF	7
Workflow constructed from history 'kinase' ▾	2

Workflows shared with you by others

No workflows have been shared with you.

Other options

Configure your workflow menu

Tools

search tools

- Import files
- Export files
- Tests
- Bioportal Phylogeny Tools
- R
- Autodock
- UiO tools
- Gaussian
- NCBI BLAST+
- MERG NCBI BLAST+
- Text Manipulation
- Filter and Sort
- Join, Subtract and Group
- Convert Formats
- Extract Features
- DeFuse
- Bismark
- Fetch Sequences
- Operate on Genomic Intervals
- Metagenomic analyses
- Statistics
- BEDTools
- Graph/Display Data
- FASTA manipulation
- NGS: GATK2
- NGS: Picard (beta)
- NGS: Trim Galore
- NGS: Assembly
- Multiple Alignments
- NGS: QC and manipulation

Running workflow "unknown fasq"

Expand All Collapse

Projects/Accounts

You have logged as user : *katerina.michalickova@usit.uio.no*. Please select the project (account) where you will be running your workflow.

You have 198.18 cpu hours remaining in your Lifeportal test project (gx_default)!

--select--

Step 1: FastQC:Read QC (version 0.10.1)

Short read data from your current history

1: unknow.fastq

Title for the output file - to remind you what the job was for
FastQC

Contaminant list

Selection is Optional

JOB PARAMETERS

Number of tasks

Enter the number of tasks for the current job.
(Enter 1, if not sure.)

1

Number of tasks per node

Enter the number of tasks per node (max 16).
(Leave 1, if not sure.)

1

Walltime (job duration)

Select how long the job shall be running :

DD: 00 HH: 2 MM: 00

Memory per CPU

Select how much memory you need for the job
(the allowed format is digit+Gb/Mb, e.g. 16GB or 3000Mb):

4Gb

Step 2: FASTQ to FASTA (version 1.0.0)

History

unknown fastq

595.1 KB

9: Fetch taxonomic representation on data 7

44 lines

format: taxonomy, database: ?

Starting job 8994995 ("") on c2-3 at Tue Nov 18 13:42:49 CET 2014

Job script resource usage: JobID MaxVMSize MaxRSS ----- 8994995.bat+ 378284K 10176K Job step resource usage: JobID JobName A

1. Name

```

HWI-EAS210R_0001:6:1:3:1990#CGATGT/
HWI-EAS210R_0001:6:1:3:1990#CGATGT/
HWI-EAS210R_0001:6:1:5:352#CGATGT/1
HWI-EAS210R_0001:6:1:3:1375#CGATGT/
HWI-EAS210R_0001:6:1:3:1990#CGATGT/
HWI-EAS210R_0001:6:1:4:911#CGATGT/1

```

7: Convert on data 6

64 lines

format: tabular, database: ?

Starting job 8994983 ("") on c2-3 at Tue Nov 18 13:38:15 CET 2014

Job script resource usage: JobID MaxVMSize MaxRSS ----- 8994983.bat+ 331856K 5836K Job step resource usage: JobID JobName A

Tools

[Import files](#)

[Export files](#)

[Tests](#)

[Bioportal Phyloqeny Tools](#)

[R](#)

[Autodock](#)

[UiO tools](#)

[Gaussian](#)

[NCBI BLAST+](#)

[MERG NCBI BLAST+](#)

[Text Manipulation](#)

[Filter and Sort](#)

[Join, Subtract and Group](#)

[Convert Formats](#)

[Extract Features](#)

[DeFuse](#)

[Bismark](#)

[Fetch Sequences](#)

[Operate on Genomic Intervals](#)

[Metagenomic analyses](#)

[Statistics](#)

[BEDTools](#)

[Graph/Display Data](#)

[FASTA manipulation](#)

[NGS: GATK2](#)

[NGS: Picard \(beta\)](#)

[NGS: Trim Galore](#)

[NGS: Assembly](#)

[Multiple Alignments](#)

[NGS: QC and manipulation](#)

Number of tasks

Enter the number of tasks for the current job.
(Enter 1, if not sure.)

Number of tasks per node

Enter the number of tasks per node (max 16).
(Leave 1, if not sure.)

Walltime (job duration)

Select how long the job shall be running :

Memory per CPU

Select how much memory you need for the job (the allowed format is digit+Gb/Mb, e.g. 16GB or 3000Mb):

Step 6: Fetch taxonomic representation (version 1.1.0)

Show taxonomic representation for

Output dataset 'out_file1' from step 5

GIs column

3 (value not yet validated)

Name column

1 (value not yet validated)

JOB PARAMETERS

Number of tasks

Enter the number of tasks for the current job.
(Enter 1, if not sure.)

Number of tasks per node

Enter the number of tasks per node (max 16).
(Leave 1, if not sure.)

Walltime (job duration)

Select how long the job shall be running :

Memory per CPU

Select how much memory you need for the job (the allowed format is digit+Gb/Mb, e.g. 16GB or 3000Mb):

☐ Send results to a new history

Run workflow

History

unknown fastq

595.1 KB

9: Fetch taxonomic representation on data 7

44 lines

format: taxonomy, database: ?

Starting job 8994995 ("") on c2-3

at Tue Nov 18 13:42:49 CET 2014





Job script resource usage: JobID

MaxVMSize MaxRSS -----

----- 8994995.bat+

378284K 10176K Job step

resource usage: JobID JobName A

1. Name

HWI-EAS210R_0001:6:1:3:1990#CGATGT/

HWI-EAS210R_0001:6:1:3:1990#CGATGT/

HWI-EAS210R_0001:6:1:5:352#CGATGT/1

HWI-EAS210R_0001:6:1:3:1375#CGATGT/

HWI-EAS210R_0001:6:1:3:1990#CGATGT/

HWI-EAS210R_0001:6:1:4:911#CGATGT/1

7: Convert on data 6

64 lines

format: tabular, database: ?

Starting job 8994983 ("") on c2-3

at Tue Nov 18 13:38:15 CET 2014





Job script resource usage: JobID

MaxVMSize MaxRSS -----

----- 8994983.bat+

331856K 5836K Job step resource

usage: JobID JobName A

Your workflows

Create new workflow Upload or import workflow

Name	# of Steps
unknown fasn	6
im	7
m	7
W	3
im	3
RF	7
Workflow constructed from history 'kinase'	2

Workflows shared with you by others

No workflows have been shared with you.

Other options

Configure your workflow menu

Share or Publish Workflow 'unknown fasq'

Make Workflow Accessible via Link and Publish It

This workflow is currently restricted so that only you and the users listed below can access it. You can:

Make Workflow Accessible via Link

Generates a web link that you can share with other people so that they can view and import the workflow.

Make Workflow Accessible and Publish

Makes the workflow accessible via link (see [above](#)) and publishes the workflow to Galaxy's [Published Workflows](#) section, where it is publicly listed and searchable.

Share Workflow with Individual Users

You have not shared this workflow with any users.

Share with a user

[Back to Workflows List](#)

Data Libraries

Published Histories

Published Workflows

Published Visualizations

Published Pages

Share or Publish Workflow 'unknown-fasq'

Make Workflow Accessible via Link and Publish It

This workflow is currently **accessible via link and published**.
Anyone can view and import this workflow by visiting the following URL:

<https://lifeportal.uio.no/u/katerim%40uio.no/w/unknown-fasq>

This workflow is publicly listed and searchable in Galaxy's Published Workflows section.
You can:

Unpublish Workflow

Removes this workflow from Galaxy's Published Workflows section so that it is not publicly listed or searchable.

Disable Access to Workflow via Link and Unpublish

Disables this workflow's link so that it is not accessible and removes workflow from Galaxy's Published Workflows section so that it is not publicly listed or searchable.

Share Workflow with Individual Users


You have not shared this workflow with any users.

Share with a user

[Back to Workflows List](#)

Published Workflows

search name, annotation, owner, and tags



[Advanced Search](#)

Name	Annotation	Owner	Community Rating	Community Tags	Last Updated ↓
unknown fasq		katerim@uio.no	★★★★★		1 minute ago
Count 3 miRNAs & transcripts - joint output		sveinugu@uio.no	★★★★★		Oct 07, 2014
RFK_Jan22		katerim@uio.no	★★★★★		Jan 21, 2014



[Published Workflows](#) | [katerim@uio.no](#) | unknown fasq

[+ Import workflow](#)

About this Workflow

Galaxy Workflow 'unknown fasq'

Step

Annotation

Step 1: FastQC:Read QC

Short read data from your current history

select at runtime

Title for the output file - to remind you what the job was for

FastQC

Contaminant list

select at runtime

Step 2: FASTQ to FASTA

FASTQ file to convert

select at runtime

Step 3: NCBI BLAST+ blastn

Nucleotide query sequence(s)

Output dataset 'output_file' from step 2

Subject database/sequences

BLAST Database

Nucleotide BLAST database

vector (value not yet validated)

None

Type of BLAST

blastn-short

Set expectation value cutoff

0.001

Output format

Author

katerim@uio.no

Related Workflows

[All published workflows](#)

[Published workflows by](#)

[katerim@uio.no](#)

Rating

Community

(0 ratings, 0.0 average)

Yours

Tags

Community: none

Yours:



Your workflows

Create new workflow

Upload or import workflow

Name	# of Steps
imported: unknown fastq ▾	6
unknown fastq ▾	6
imported: match reads ▾	7
match reads ▾	7
Workflow constructed from history 'kinase' ▾	3
imported: GenBank ▾	3
RFK_Jan22 ▾	7
Workflow constructed from history 'kinase' ▾	2

Workflows shared with you by others

No workflows have been shared with you.

Other options

Configure your workflow menu

Logged in as katerina.michalicki

Logout

Saved Histories

Saved Datasets

Saved Pages

API Keys

Tools

search tools

✖

Import files

Export files

Tests

Bioportal Phylogeny Tools

R

Autodock

UiO tools

Gaussian

NCBI BLAST+

MERG NCBI BLAST+

Text Manipulation

Filter and Sort

Join, Subtract and Group

Convert Formats

Extract Features

DeFuse

Bismark

Fetch Sequences

Operate on Genomic Intervals

Metagenomic analyses

Statistics

BEDTools

Graph/Display Data

FASTA manipulation

NGS: GATK2

NGS: Picard (beta)

NGS: Trim Galore

NGS: Assembly

Multiple Alignments

NGS: QC and manipulation

About the Lifeportal

Lifeportal gives you easy access to the High Performance Computing cluster Abel at the University of Oslo. The Galaxy based Lifeportal has a continuously growing list of services, and among them the most widely used tools from the former Bioportal.

More about Lifeportal

Partners



9: Fetch taxonomic representation on data 7





👁️ ⌵ ✕

44 lines

format: taxonomy, database: ?

Starting job 8994995 ("") on c2-3 at Tue Nov 18 13:42:49 CET 2014

Job script resource usage: JobID MaxVMSize MaxRSS ----- 8994995.bat+ 378284K 10176K Job step resource usage: JobID JobName A

1. Name

HWI-EAS210R_0001:6:1:3:1990#CGATGT/

HWI-EAS210R_0001:6:1:3:1990#CGATGT/

HWI-EAS210R_0001:6:1:5:352#CGATGT/1

HWI-EAS210R_0001:6:1:3:1375#CGATGT/

HWI-EAS210R_0001:6:1:3:1990#CGATGT/

HWI-EAS210R_0001:6:1:4:911#CGATGT/1

<

>

7: Convert on data 6





👁️ ⌵ ✕

64 lines

format: tabular, database: ?

Starting job 8994983 ("") on c2-3 at Tue Nov 18 13:38:15 CET 2014

Job script resource usage: JobID MaxVMSize MaxRSS ----- 8994983.bat+ 331856K 5836K Job step resource usage: JobID JobName A

Pages

Advanced Search

Add new page

<input type="checkbox"/>	Title	Public URL	Annotation	Tags	Sharing	Created	Last Updated ↑
<input type="checkbox"/>	unknown reads ▾	/u/katerim%40uio.no/p/unknown-reads	find organism match to unknown reads	0 Tags	Accessible, Published	~ 4 hours ago	~ 4 hours ago
<input type="checkbox"/>	test page ▾	/u/katerim%40uio.no/p/test-page	test	0 Tags		~ 23 hours ago	~ 23 hours ago

For 0 selected pages: Delete

Pages shared with you by others

No pages have been shared with you.

Dear Dr. Collaborator,

Thank you for sending your mystery reads, I have checked them for matching sequences and organisms and it turns out they come from an intracellular bacterium Bartonella that is zoonotic pathogen transmitted by insect vectors. The workflow I have constructed

1. checks the quality of the unknown reads
2. converts fastq to fasta
3. checks for vector contamination
4. blasts unknown reads against non-redundant nucleotide collection
5. parses out GI identifiers
6. fetches taxonomy info for GI identifiers

Workflow 'unknown fastq'

Embedded Galaxy Workflow 'unknown fastq'

[Do not edit this block; Galaxy will fill it in with the annotated workflow when it is displayed.]

Your students can run this workflow on many future samples,

Yours sincerely,

Dr. Portal

Pages

[Add new page](#)[Advanced Search](#)

<input type="checkbox"/>	Title	Public URL	Annotation	Tags	Sharing	Created	Last Updated ↑
<input type="checkbox"/>	unknown-fastq	erim%40uio.no/p/unknown-fastq	Match unknown reads to an organism	0 Tags		12 minutes ago	6 minutes ago
<input type="checkbox"/>	test	erim%40uio.no/p/test-page	test	0 Tags		~ 23 hours ago	~ 23 hours ago

- View
- Edit content
- Edit attributes
- Share or Publish
- Delete

Pages shared with you by others

No pages have been shared with you.

Published Pages



[Advanced Search](#)

<u>Title</u>	<u>Annotation</u>	<u>Owner</u>	<u>Community Rating</u>	<u>Community Tags</u>	<u>Last Updated</u> ↓
unknown fastq	Match unknown reads to an organism	katerim@uio.no	☆☆☆☆☆		less than a minute ago

Published Pages | [katerim@uio.no](#) | unknown fastq

Dear Dr. Collaborator,

Thank you for sending your mystery reads, I have checked them for matching sequences and organisms and it turns out they come from an intracellular bacterium [Bartonella](#) that is zoonotic pathogen transmitted by insect vectors.

See the [History](#) 'unknown fastq' that

1. checks the quality of the unknown reads
2. converts fastq to fasta
3. checks for vector contamination
4. blasts unknown reads against non-redundant nucleotide collection
5. parses out GI identifiers
6. fetches taxonomy info for GI identifiers

Galaxy History | unknown fastq

Dataset

1: [unknown.fastq](#)

2: [FastQC unknown.fastq.html](#)

4: [FASTQ to FASTA on data 1](#)

5: [blastn-short on db](#)

6: [blastn-short on db](#)

7: [Convert on data 6](#)

9: [Fetch taxonomic representation on data 7](#)

Annotation

I have constructed a workflow as well for you to be able to repeat the experiment.

[Workflow](#) 'unknown fasq'

Galaxy Workflow | unknown fasq

Your students can run this workflow on many future samples,

Yours sincerely,

Dr. Portal

About this Page

Author

[katerim@uio.no](#)

Related Pages

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[Published pages by katerim@uio.no](#)

Rating

Community
(0 ratings, 0.0 average)

Yours

Tags

Community: none

Yours:

