Workshop UAustral: Práctico 1, pasos previos

Ensamble de genomas, anotación y búsqueda de homólogos





Researcherid J-6429-2012













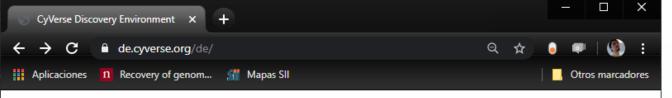




@JM_bioinfo

■ En las siguientes diapositivas explicaré la forma de obtener una cuenta en Cyverse (plataforma con herramientas bioinformáticas) y luego en RAST (plataforma de anotación estructural y funcional de genomas).

■ Una vez que tengan sus datos de usuario, deben enviarme el nombre de usuario (de cada plataforma) junto con sus nombres al correo jomaldon@gmail.com para poder compartirles los datos del práctico.

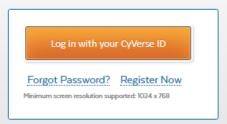




Discovery Environment

The Discovery Environment integrates powerful, community-recommended software tools into a system that:

- Makes big data management easy. Upload, organize, edit, view and search with ease!
- Has 500+ scientific apps that utilize compute clusters and HPC resources as needed.
- Hides the complexity needed to do these tasks.



©2018 CyVerse. CyVerse is funded by a grant from the National Science Foundation (#DBI-0735191, #DBI-1265383)

The Discovery Environment Manual

A useful resource for new users.

Getting Started with CyVerse
Helps you discover what other CyVerse
services you can use and ways to
collaborate with CyVerse.

The Main CyVerse Homepage Learn more about CyVerse. <u>Need Help?</u>

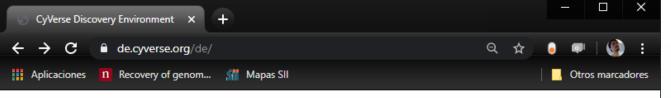
Contact support if you need assistance.

Cyverse es una plataforma financiada por el NSF de EEUU que proporciona apoyo a la investigación científica en base a herramientas online tipo cloud computing.

Una de las herramientas mas amigables es el "Discovery Environment", donde es posible realizar un gran número de de tareas bioinfo usando programas populares y recursos computacionales de cloud computing.

Con el fin de evitar retrasos por la instalación de programas en los computadores personales, y para "homogenizar" el acceso a infraestructura y datos entre los asistentes al curso usaremos esta plataforma.

Deben seguir los siguientes pasos para obtener una cuenta de acceso.

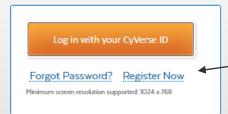




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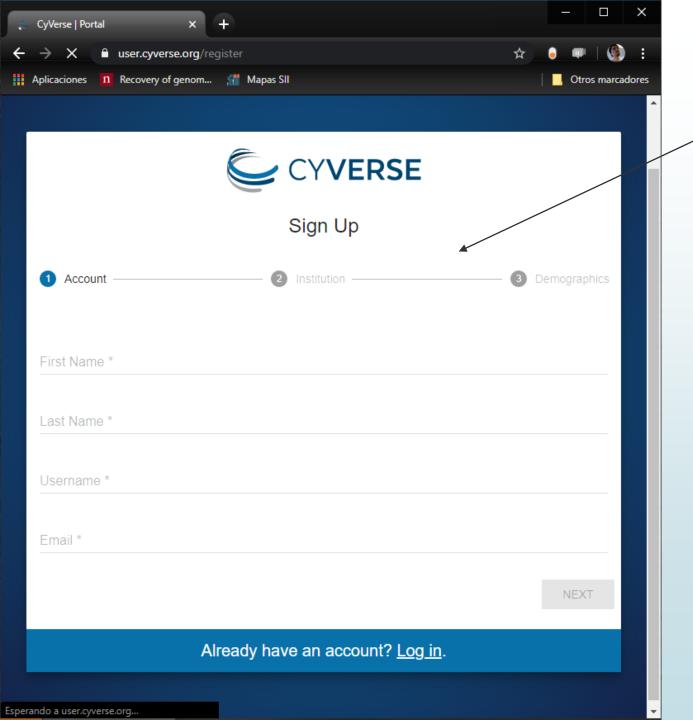
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Abrir un explorador web (ej. Chrome) y entrar al siguiente sitio web:

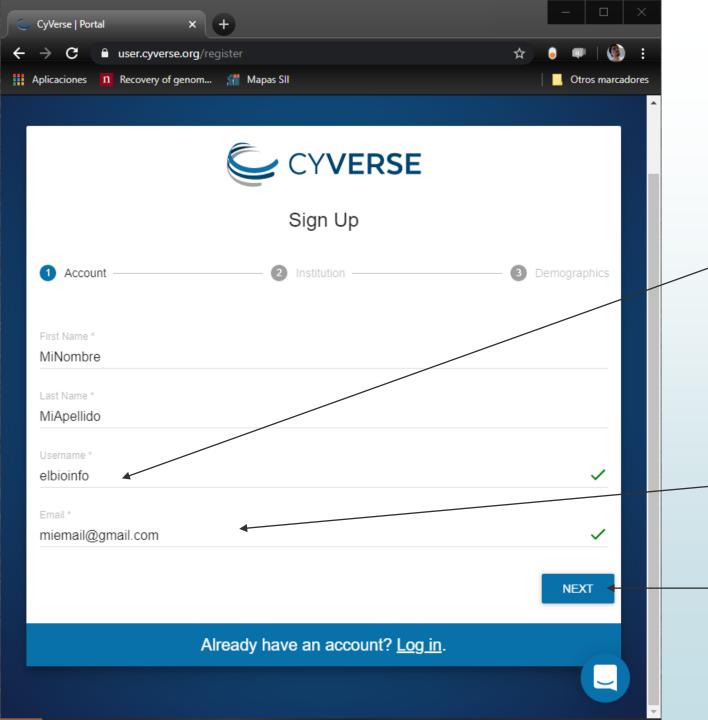
de.cyverse.org

Pinchar en el botón "Register Now"



El formulario de registro tiene tres secciones principales.

En la primera sección deben introducir sus datos personales.

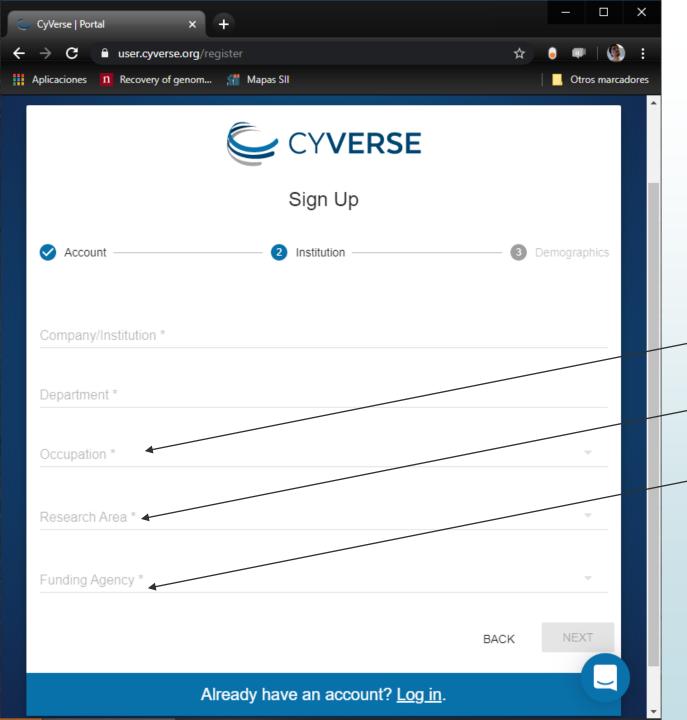


Como username escojan un acrónimo corto relacionado con sus nombres o apodo, sin espacios y no muy largo.

Por ejemplo, en mi caso puede ser: jomaldon, jmaldonado, jmaldona, etc

Es ideal, pero no es requisito, usar un email institucional. Esto les puede permitir más adelante tener acceso a más herramientas y capacidad de cómputo.

Presionar "Next"

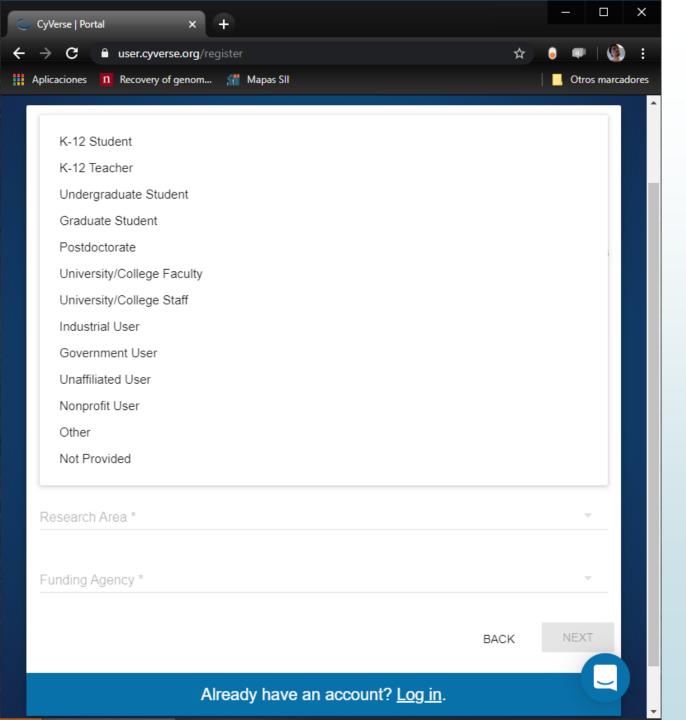


En la segunda sección deben introducir los datos de la institución donde trabajan

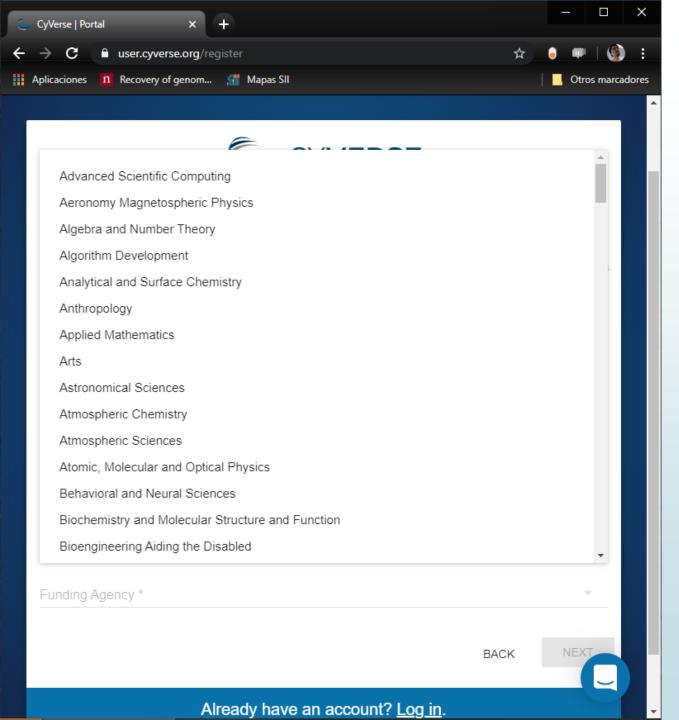
En ocupación se desplegará un menú para que elijan lo que corresponda.

Lo mismo en Research Area

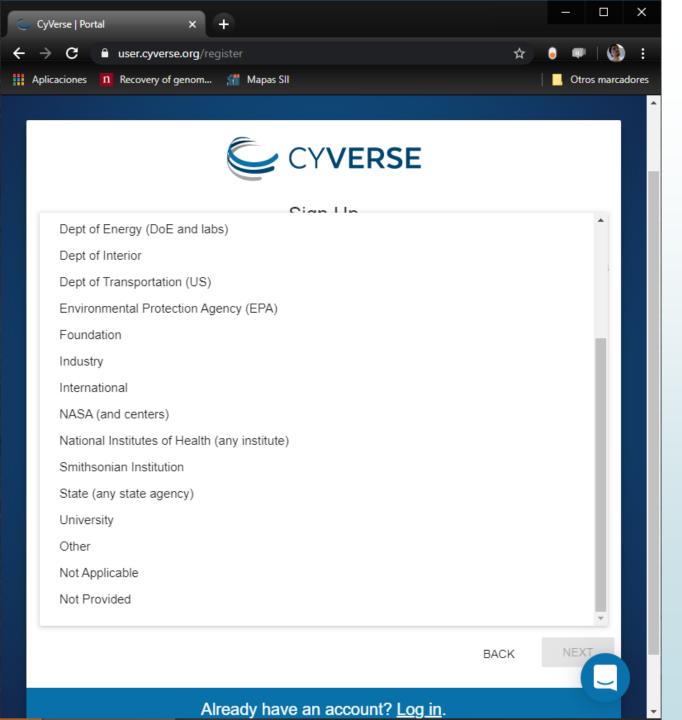
Lo mismo en Funding...



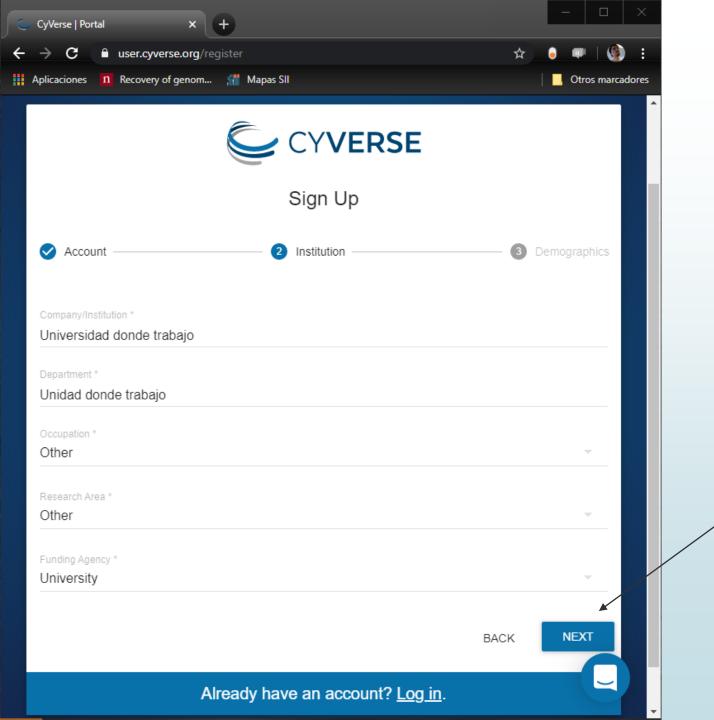
Opciones del menú "Occupation"



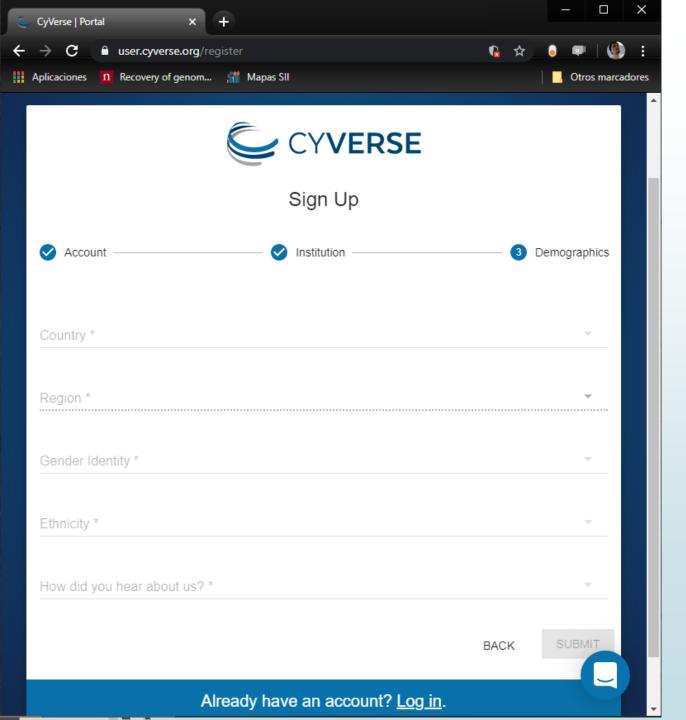
Opciones del menú "Research Area"



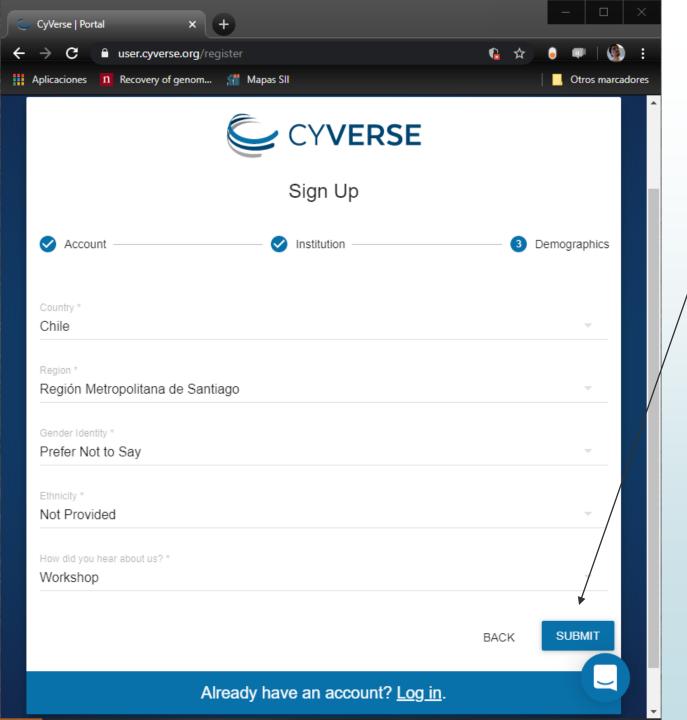
Opciones del menú "Funding Agency"



Presionar "Next"

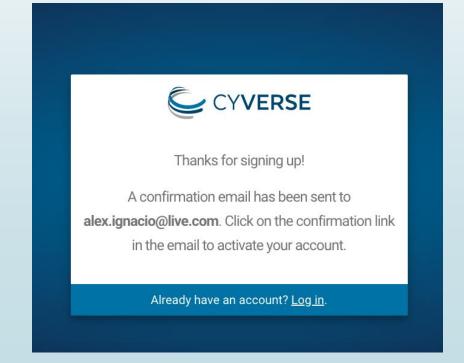


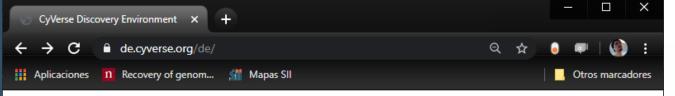
En la última sección deben introducir sus datos demográficos



Finalmente presionan "Submit"

Les llegará un email con la clave de acceso a la dirección de correo que colocaron en la primera sección.







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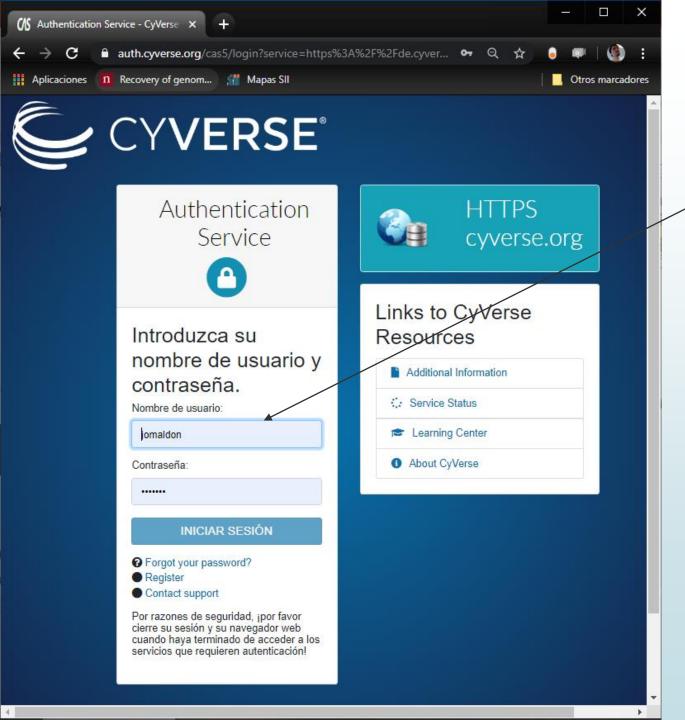
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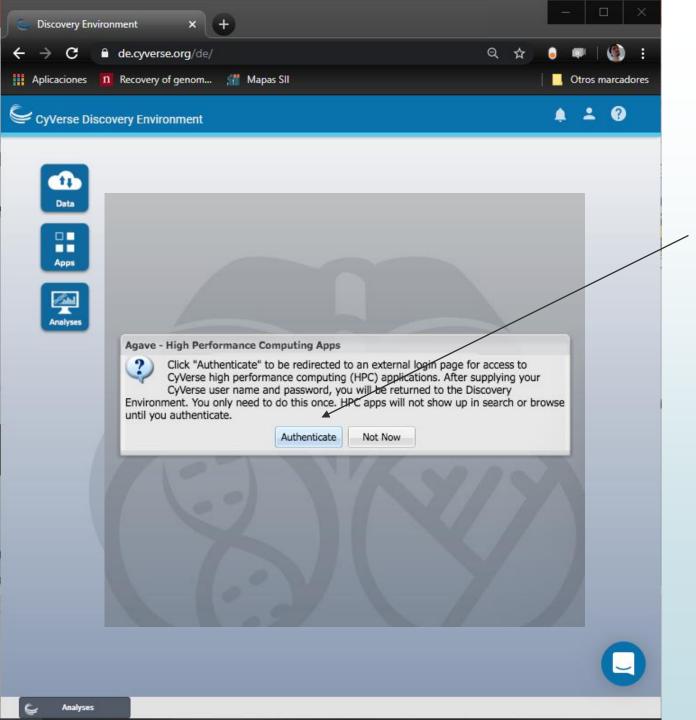
Vuelvan al sitio

de.cyverse.org

pero ahora pinchan en "Log in..."

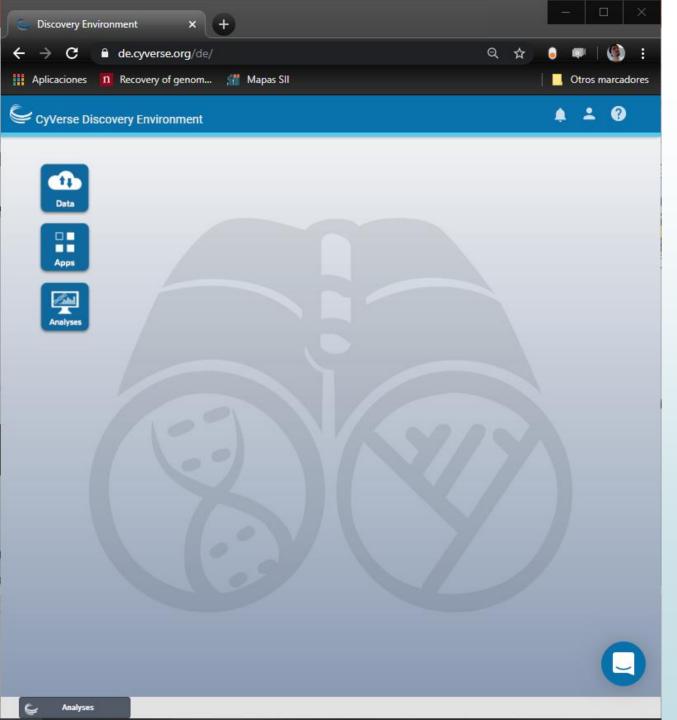


Colocar username y contraseña



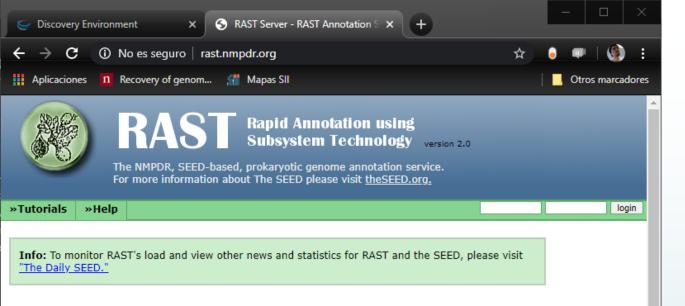
Debieran llegar a esta pantalla.

Presionar Authenticate si aparece el mensaje



Finalmente, me envían el username y sus nombres a mi email jomaldon@gmail.com para poder compartirles a la cuenta de Cyverse los archivos y los programas que usaremos.

En el práctico les explicaré el uso de esta interfaz.

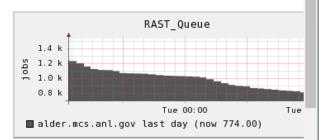


Welcome to RAST

» Register for a new account, service, or user-group » Forgot your password?

Login Login

RAST Job Load, last 24 hours



What is RAST?

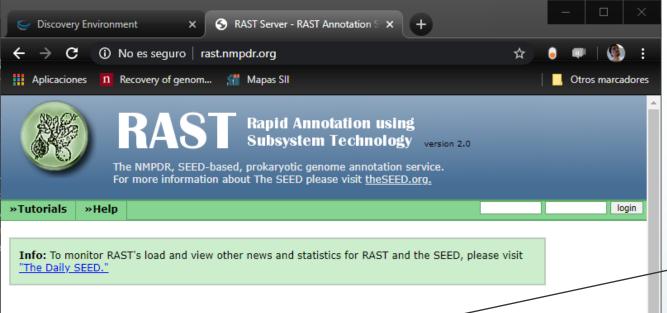
RAST (Rapid Annotation using Subsystem Technology) is a fully-automated service for annotating complete or nearly complete bacterial and archaeal genomes. It provides high quality genome annotations for these genomes across the whole phylogenetic tree.

We have a number of presentations and tutorials available:

- Registering for RAST
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 bring it up in slide-show mode and click through to see the animations and movies.
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 topic of manually improving RAST annotations: it is also a powerpoint presentation with animations.

RAST es una plataforma financiada por instituciones de EEUU que proporciona un servicio automatizado de anotación estructural y funcional de genomas de bacterias y arqueas.

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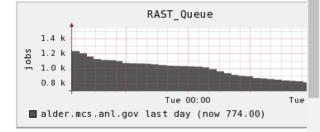
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Abrir un explorador web (ej. Chrome) y entrar al siguiente sitio web:

rast.nmpdr.org

Pinchar en el botón "Register..."



Register for this service

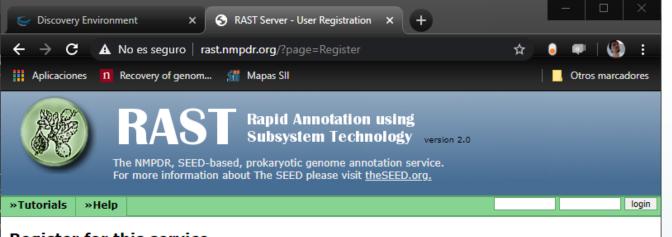
New Account	Existing Account	
Fields indicated with * are mandatory.		
First Name*		
Last Name*		
Login*		
eMail*		
Organization		
URL http://		
Country United State	s T	
Group Name		
(only enter if	assigned by a group administrator)	
Request		

- . If you register for the first time, choose New Account. Please enter your first and last name as well as your email address into the fields below. Then please select your country and choose a login name. It's recommended to use only letters and digits for your login name, without spaces. After an administrator has approved your account, you will receive an email confirming your account approval, and explaining how to login and set your password.
- If you already have an account for one of our other services, choose Existing Account. Please enter your login and email of that account.
- If your group administrator has given you a group name, please enter it in the group name field, otherwise leave this field blank.

Como login escojan un acrónimo corto relacionado con sus nombres o apodo, sin espacios y no muy largo.

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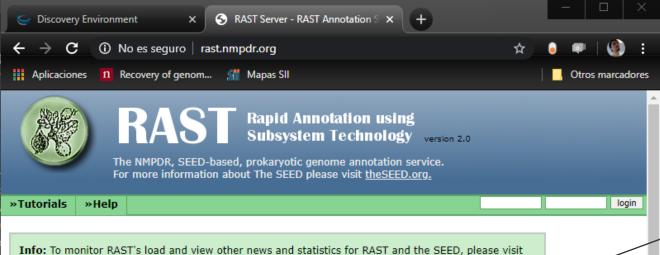
New Account	Existing Account	
Fields indicated	with * are mandatory.	
First Name*	MiNombre	
Last Name*	me* MiApellido	
Login*	elbioinfo	
eMail*	miemail@gmail.com	
Organization Universidad donde trabajo		
URL http://www.universidad.cl		
Country	ntry Chile •	
Group Name		
	(only enter if assigned by a group administrator)	
	Request	

- · If you register for the first time, choose New Account. Please enter your first and last name as well as your email address into the fields below. Then please select your country and choose a login name. It's recommended to use only letters and digits for your login name, without spaces. After an administrator has approved your account, you will receive an email confirming your account approval, and explaining how to login and set your password.
- If you already have an account for one of our other services, choose Existing
 Account. Please enter your-loging and omail of that

Account. Please enter yo login and email of that account.

 If your group administrator has given you a group name, please enter it in the group name field, otherwise leave this field blank. Presionar "Request"

Les llegará un email con la clave de acceso a la dirección de correo que colocaron.



Info: To monitor RAST's load and view other news and statistics for RAST and the SEED, please visit "The Daily SEED."

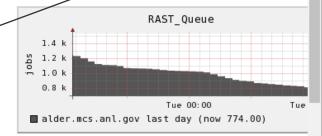
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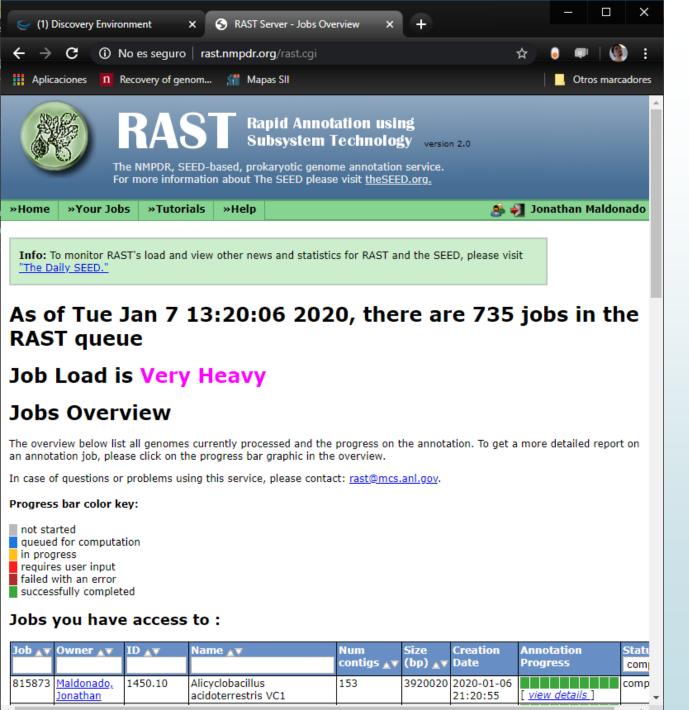
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Vuelvan al sitio web: rast.nmpdr.org

Pero esta vez ingresan sus datos



Debieran llegar a esta pantalla.

Finalmente, me envían el username y sus nombres a mi email <u>jomaldon@gmail.com</u> para poder compartirles a la cuenta de RAST algunos genomas ya procesados.

En el práctico les explicaré el uso de esta interfaz.

