



Genomics Core services and procedures

Getting started with metagenomics projects and Bio-IT

Working with the genomics core requires a little bit of

COURT_{ing}



Working with the genomics core requires a little bit of

COURT_{ing}



Contact us

Orgnaisation code

User account

Request a project

Transport of samples

Contact us

info@genomicscore.be

Why?

- Information on available techniques and equipment
 - Pricing
 - Practical guidelines
 - We can provide help with experimental design
- Contact us **before** starting your experiments
- During experiment we can provide support as well

Organization code

www.genomicscore.be/request

To be able to request a project, three steps need to be taken:

1. The Principal investigator needs to be registered
2. Register as a user
3. You have to submit a project request

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info@genomicscore.be



- Pi name
- Tax id
- Address
- City
- Country
- Email

Organization code

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info@genomicscore.be

- Pi name
- Tax id
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- City
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Dear,

Your organization has been registered with genomics core. From now on your staff can request projects your organization code is:

b995e036-a335-4bc6-86b4-8ee485e5089f

. We look forward to working with you.

The Genomics Core Leuven Team.

User account

REGISTERED USERS



Genomics Core Project Requestor



Please sign in

username

password

Login

Register

I forgot my password

User account

REGISTERED USERS



Genomics Core Project Requestor

**GENOMICS
CORELEUVEN**

Please sign in

username

password

Create account

username

email

password

repeat password

organization

Organisation code

Request a project



Please sign in

username

login

password

password

Login

Register

I forgot my password



Please sign in

username

password

LoginRegisterI forgot my password

Request a project

Admin

Hello averfa3!

Submit a project on behalf of pi:

Continue as PISkip & Continue as Admin



Genomics Core Project Request ManagerProject RequestProject Overview

General Sequencing ←

Exome Sequencing

Single-Cell Sequencing

Whole Genome Sequencing

No Sequencing ←

Request a project

- Try to give as much info as you can
- If in doubt, put a comment in the “remarks”
- Essential: **nr of samples**
 - determines the nr of GC codes assigned to your project

GC1003046

GC1003047

GC1003048

GC1003049

GC1003050



Each sample you bring in to the core needs to be labeled with a unique GC code

Allows for clear tracking during processing

Transport of samples

Shipping

Bring them in person

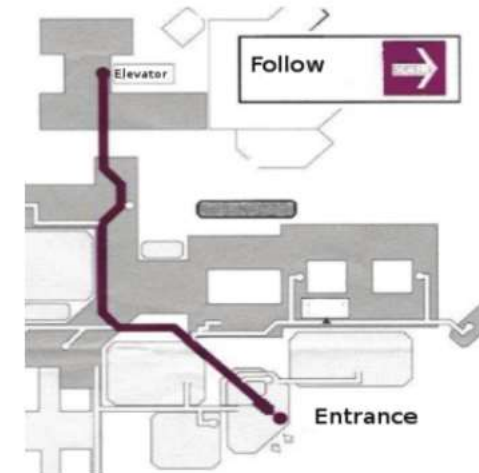
CONTACT ADDRESS

Genomics Core
Center for Human Genetics
UZ – KU Leuven
Herestraat 49 PO box 602
B-3000 Leuven
Belgium

www.genomicscore.be

info@genomicscore.be

The labs and offices of Genomics Core are situated at the 6th floor of O&N1



Office hours
Mo-fri
9h-17h

After sample submission

General turn around time

prep + sequence:	8 weeks
sequence only:	4 weeks
optimization of new protocol:	8+ weeks

→ counting from arrival of samples

After sequencing

option 1:	you receive demultiplexed FASTQ files and analyze yourself
option 2:	we help you with analysis

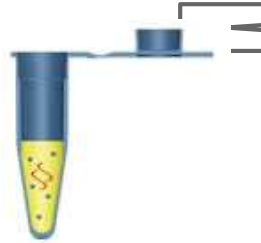
Bioinformatics Consultancy Center

Genomics Core Leuven

- **Experimental Design**



- **Library Preparation**



- **Sequencing**



- **Bioinformatics**



- **Follow up and support**



Bioinformatics Analysis

Self

Hybrid

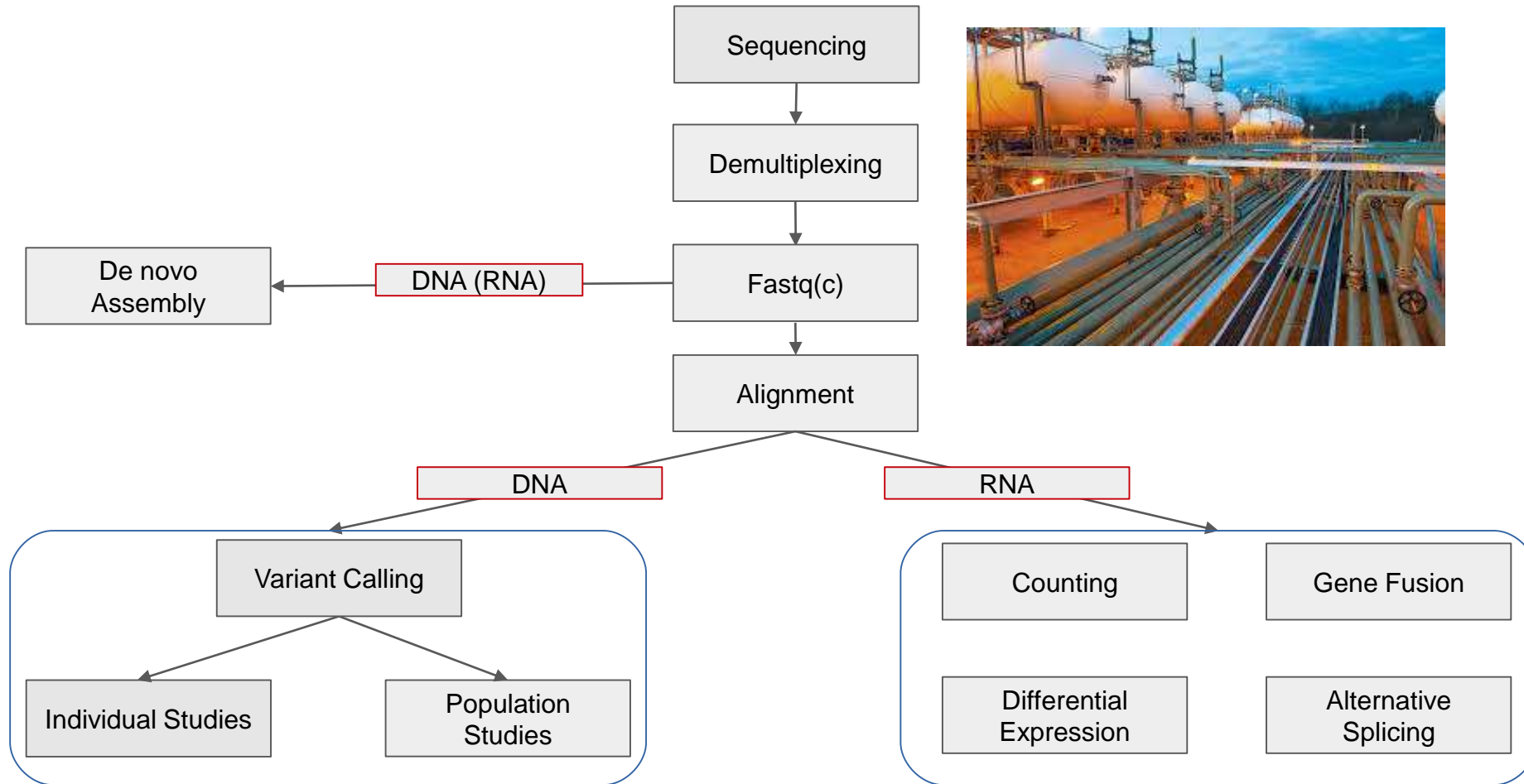
Genomics Core



Flemish Super Computer



NGS Pipeline



Bioinformatics Analysis Pipelines Genomics Core

DNA

- WGS
- SNP
- GBSX

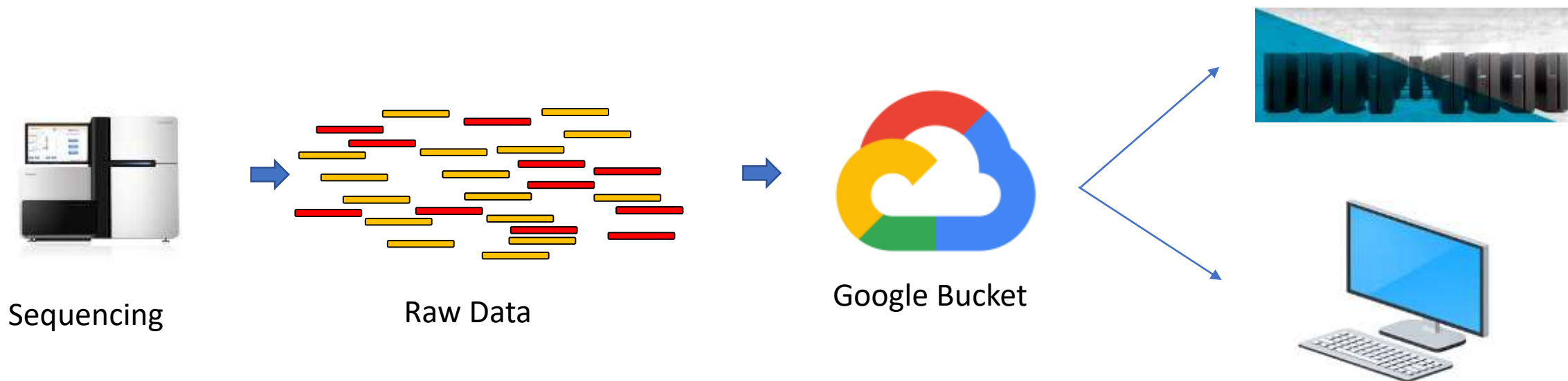
RNA

- Differential Expression
- Gene Fusion
- Alternative Splicing (Pacbio)

Single Cell

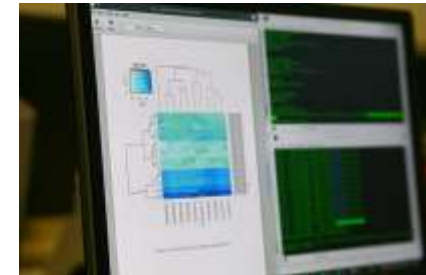
- RNA
 - Seurat
 - Scater

Sequencing data flow



Custom Bioinformatics Projects

- Analysis is completely or partly developed by the Genomics Core
- Duration is project dependent, usually between 2 days to 2 weeks
- Together with the user
- Good alternative if bioinformatics expertise of infrastructure is not readily available...
- ...But it has a cost
- Interested? Drop us a line at info@genomicscore.be



VSC: Flemish Super Computer



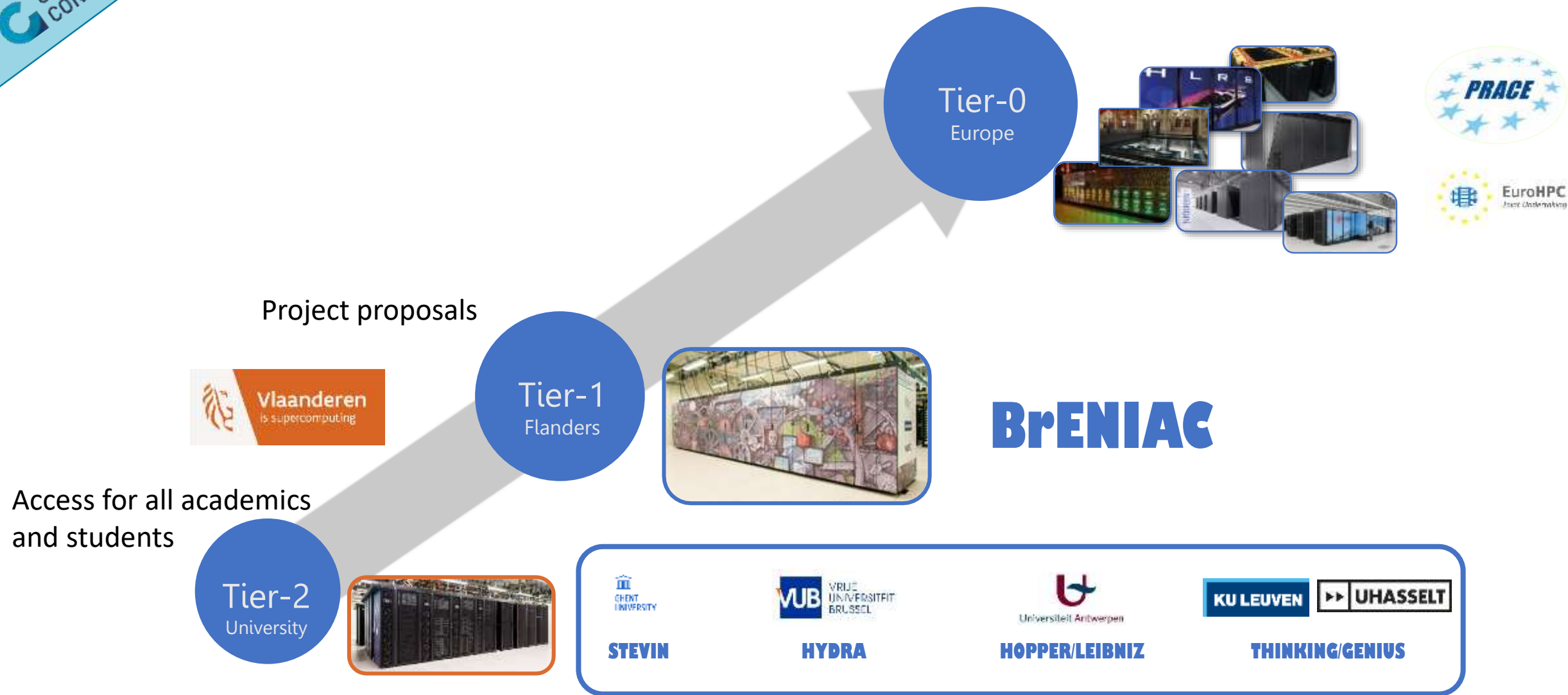
Supported by



Started 2007

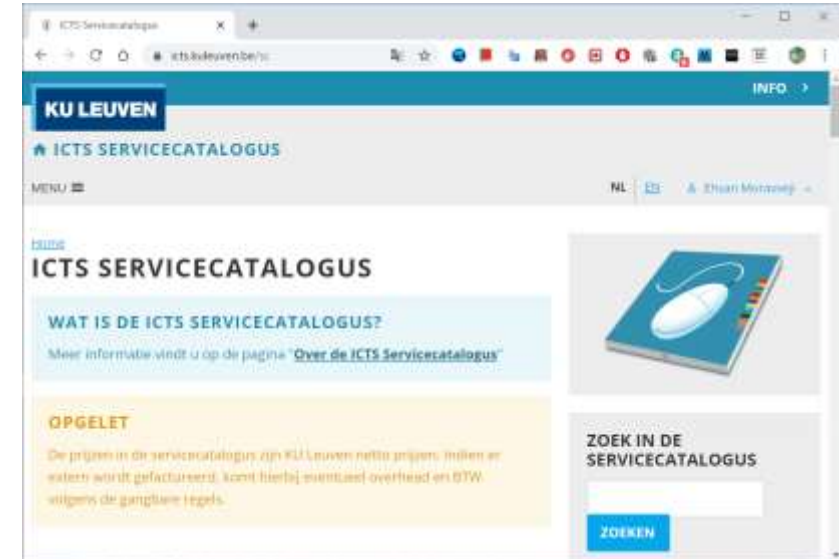


Credit: VSC



Joining VSC – for project leaders

- Request [project credits](#) (for supervisors and project leaders)
 - You need to create a VSC group
 - Add users to the group to give them access to use credits
 - Fill out the request form
 - You can join an existing group
- Extra storage requests
- All service costs (compute and storage) are all explained
Go to ICTS service catalogus: <https://icts.kuleuven.be/sc>
Click on [High Performance Computing](#) (NL/EN)
- Talk for support via hpcinfo@kuleuven.be



Specialized Bioinformatics Support for VSC?
Info@genomicscore.be

- Workshops
- Trainings
- Individual or group sessions



On behalf of the Genomics Core Leuven

Thank You!

