



## Auvergne Bioinformatics platform at UCA Mesocentre

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# Auvergne Bioinformatics platform at UCA Mesocentre

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Hosted by the Mesocentre ([www.mesocentre.uca.fr](http://www.mesocentre.uca.fr)), AuBi, the Auvergne Bioinformatics platform is a member of the French Institute of Bioinformatics (IFB, [www.france-bioinformatique.fr](http://www.france-bioinformatique.fr)). We aim at sharing expertise and knowledge in large-scale data analysis with computing facilities for several research laboratories. Galaxy and OMERO servers were deployed to fit biologists requests especially in NGS fields and meta-data image storage facilities.

In 2019, 21 new AuBi Users  
39 active AuBi Users  
102 active Mesocentre users

In 2020, already 22 accounts opened  
half of them are for Master and PhD Students

**Computer farm**

HPC2	shared storage
40 hpcnodes	> 800 cores
8 GPU	SMP supercomputer
	384 cores, 12TB

In 2019, AuBi used :  
1.9 million CPUHours  
2.5 millions CPUHours (SMP)  
200 thousands CPUHours (GPU)

**VMWARE Lab projects**

- ePANAM
- META VIR
- Pan Gene Home
- PhROGs Phage Remote Orthologous Groups

**VMWARE AuBi projects**

- Galaxy
- OMERO
- ...

Galaxy server  
17 active users in 2019  
35 active users in 2020  
HPC2 shared databanks (BioMAJ)

OMERO server newly deployed

**Openstack Cloud**

960 physical cores  
9 TB RAM

Service newly deployed

Galaxy & imageJ images available

IFB Cloud connection under process

**CEPH Storage Cluster**

608 TB \* 3

12 AuBi projects running  
> 86 TB  
( sequences, images or video)

**PARTNERS**