SouthGreen bioinformatics platform

Session de formation 2023

diade

PHIM Plant Health Institute Montpellier

Alliance Bioversity & CIAT

agAP

ASTRE Animal - Santé Territoires - Risques - Ecosystèmes

intertryp Host-vector-parasite-environment interactions in neglected tropical diseases due to trypanosomatids

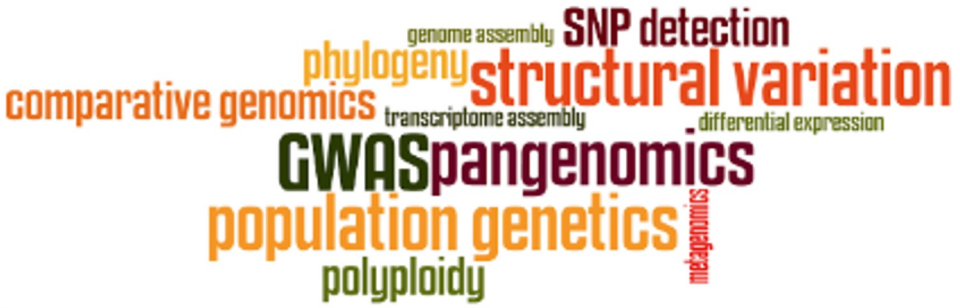
MiVEGEC Maladies Infectieuses et Vecteurs Écologie, Génétique, Évolution et Contrôle

TransVIHMI

IFB INSTITUT FRANÇAIS DE BIOINFORMATIQUE

South Green bioinformatics platform

bioinformatics platform dedicated to the genetics and genomics of tropical and Mediterranean plants and their pathogens



Mutualisation

Cacao | Banana | Coffee | Rice | Palm | *Cassava* | *Pseudocercospora* | *Magnaporthe*

SouthGreen bioinformatics platform

Alliance Bioversity & CIAT

Institut de Recherche pour le Développement FRANCE

cirad

INRAE

4 institutes

diade

PHIM

agAP

3 research units

25+

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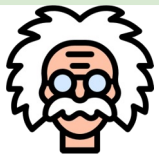
Storage and computing resources

Tools

Trainings



400+

Storage and computing resources

cirad

Meso@LR au CINES
1090 threads :
35 standard nodes
2 bigmem nodes
1 GPU node
500 To of replicated storage

IRD

CINES
1130 threads:
30 standard node
1 supermem node
1 GPU node
150 To on 3 NAS + 210 To scratch

slurm workload manager

400+

600+ tools

Resources mutualised at Meso@LR through the **Mudis4Ls** project (purchase/storage/data)

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Collaborative development of tools

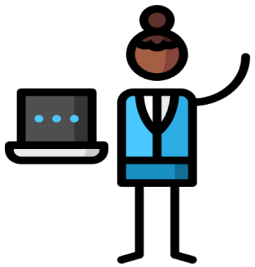
Genomics

- Pangenomic
- Gene families
- Comparative
- Phylogeny
- Assemblies
- Annotation
- Data mining

Diversity exploration

- genotype manipulation
- mosaic manipulation

Metagenomic



+20 tools

- web applications (16)
- visualisation (8)
- workflows(5)
- packages (4)

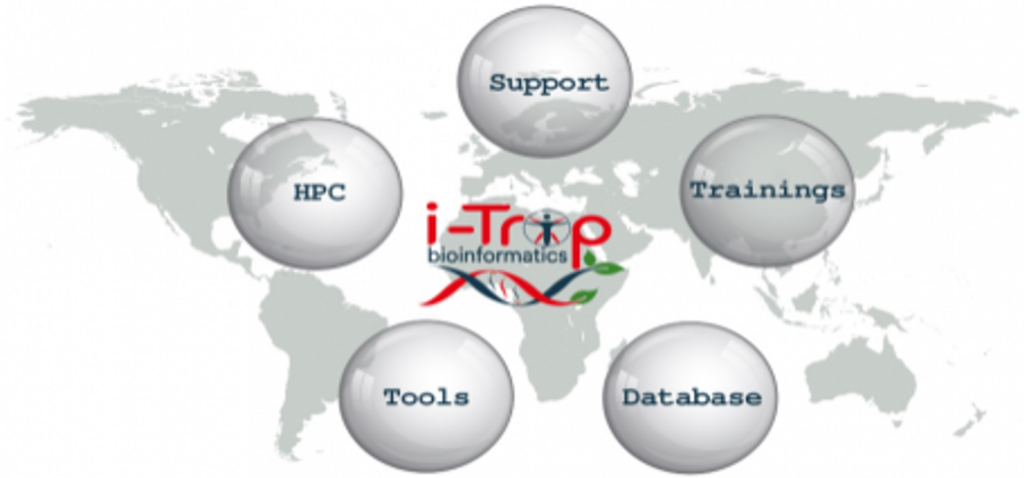
https://github.com/SouthGreenPlatform/

I-Trop

Plant & Health Bioinformatics Platform

Institut de Recherche pour le Développement FRANCE

https://bioinfo.ird.fr/



afaq ISO 9001 Qualité AFNOR CERTIFICATION

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South Green bioinformatics platform

ASTRE Animal · Santé Territoires · Risques · Écosystèmes

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intertryp Host-vector-parasite-environment interactions in neglected tropical diseases due to trypanosomatids

Guilhem Sempere

MiVEGEC Maladies Infectieuses et Vecteurs Écologie, Génétique, Évolution et Contrôle

Bruno Granouillac
Jacques Dainat

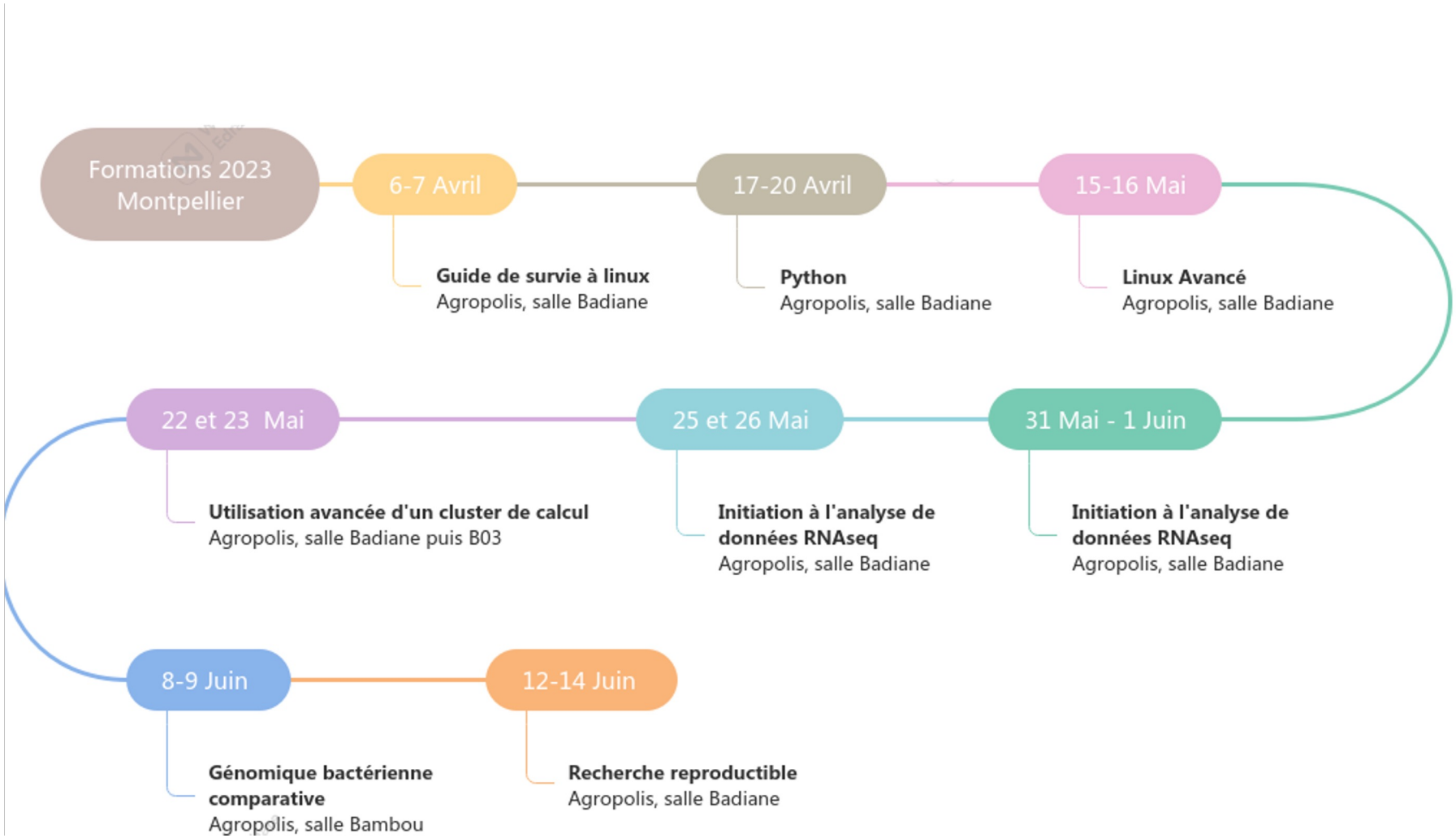
i-Trop bioinformatics

TransVIH MI

Nicolas Fernandez

IFB INSTITUT FRANÇAIS DE BIOINFORMATIQUE

Thomas Denecker

And more collaborators !

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