SouthGreen

**SouthGreen** is a bioinformatics platform maintained by CIRAD. It offers a range of tools and databases for the analysis of southern and mediterranean plants, including bananas.

Contents

- Musa-related bioinformatics platforms
  - GreenPhyl
  - Banana Genome Hub
- References
- See also on the website
- External links

### Musa-related bioinformatics platforms

#### GreenPhyl
GreenPhyl is a genomics tool that predicts the function of genes based on their evolutionary relationship with genes of known function. Developed by CIRAD as part of a two-year project funded by the Generation Challenge Programme, the tool was put online in 2006 with the rice and *Arabidopsis* genomes.

Its development was then taken over by Biodiversity International to provide computational methods to the *Musa* community and beyond. In collaboration with CIRAD, the range of GreenPhyl was expanded to allow the comparison of 16 plant genomes. In addition to facilitating comparative functional genomics and accelerating gene discovery, the tool has been used to provide fundamental insights in molecular evolution.

#### Banana Genome Hub
The Banana Genome Hub is an online bioinformatics platform that facilitates the integration of several major banana datasets, including the genomes of *Musa acuminata* (DH Pahang), *Musa acuminata* ssp. *banksii*, *Musa acuminata* ssp. *burmannica*, *Musa acuminata* ssp. *zebrina*, *Musa balbisiana* and *Musa itinerans*.[1]

The Banana Genome Hub can be used to study gene families.[2]

### References

1. List of species whose genome has been sequenced.

### See also on the website

Related stories:
- GWAS and the parthenocarpic banana
Transcriptome of banana fruit during ripening
A crash course in banana bioinformatics
A tale of two banana sequences
The road to sequencing the banana genome
More stories...

External links
SouthGreen website
GreenPhyl website
Banana Genome Hub

Contributors to this page: Anne Vézina.
Page last modified on Thursday, 26 October 2017 16:54:34 CEST by Anne Vézina.
The original document is available at http://www.promusa.org/SouthGreen