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.

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**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 Bioversity 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**

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External links

SouthGreen website
GreenPhyl website
Banana Genome Hub

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Page last modified on Thursday, 26 October 2017 16:54:34 CEST by Anne Vézina.
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