A Big Earth Data Platform for Three Poles

**Plant genome re sequencing data (2020)**

1、Description

In order to study the relationship between the spread of vines and human activities, we re sequenced the varieties from Qinghai Tibet Plateau and its surrounding areas, as well as Pakistan, India, Nepal, Germany, Japan and other places. At the same time, the gene families were clustered, and the unique and common genes and gene families were counted. In addition, the expansion and contraction analysis of gene families and the phylogeny were also carried out Tree construction, genome-wide replication event analysis. The purpose of this study was to analyze the molecular basis of the adaptation of traditional Cranberry varieties to the plateau under the dual pressure of human activities and regional climate environment. Therefore, this study is helpful to reveal the adaptive mechanism of C. racemosa adapting to the plateau ecological environment and the influence of artificial domestication and human selection on its genetic differentiation in the process of evolution.

2、Keywords

Theme：Biological Resources  
Discipline：Human-nature Relationship  
Places：Pan-third pole  
Time：2020

3、Data details

1.Scale：None

2.Projection：

3.Filesize：395.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：32.0 | - |
| west：95.0 | - | east：97.0 |
| - | south：31.0 | - |

5、Time frame:2018-11-30 16:00:00+00:00--2022-12-31 03:59:59+00:00

6、Reference method

References to data:

DUAN Yuanwen. Plant genome re sequencing data (2020). A Big Earth Data Platform for Three Poles, doi:10.11888/Socioeco.tpdc.2710652020

References to articles:

7、Supporting project information

Pan-Third Pole Environment Study for a Green Silk Road-A CAS Strategic Priority A Program

8、Data resource provider

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