A Big Earth Data Platform for Three Poles

**The genome of associated plants in Tibet Plateau on Jun , 2018**

1、Description

In order to explore how and when turnip was successfully domesticated the Qinghai-Tibet Plateau and what is the relationship between turnip domestication and early human settlement on the Qinghai-Tibetan Plateau and human migration along the ancient Silk Road, the whole genome De Novo sequencing of a self-bred F1 variety on Qinghai-Xizang Plateau was conducted, with the assembled genome size of 409.69 Mb,Contig N50 was 1.21 Mb in June 2018 using Pacbio sequencing. Those data will provide a genetic basis for elucidating the relationship between plant disperse and human activities. As we know, traditional turnip landrace is influenced by human domestication and nature selection. Hopefully, the study will help to understand the impacts of human selection on turnip genetic differentiation, and the adaptation mechanism of turnip in the Qinghai-Tibetan Plateau.

2、Keywords

Theme：Farmland,Agricultural Resources,Vegetation,Turnip  
Discipline：Terrestrial Surface,Human-nature Relationship  
Places：Tibetan Plateau, Pan-Third pole  
Time：2018

3、Data details

1.Scale：None

2.Projection：

3.Filesize：46080.0MB

4.Data format：None

4、Space scope

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

5、Time frame:2018-01-08 00:00:00+00:00--2019-01-07 00:00:00+00:00

6、Reference method

References to data:

DUAN Yuanwen. The genome of associated plants in Tibet Plateau on Jun , 2018. A Big Earth Data Platform for Three Poles, doi:10.11888/Ecolo.tpdc.2702432019

References to articles:

杨云强, 孙旭东, 孔祥翔, 王春涛, 杨雅, 尹欣, 杨丹妮, 段元文, 杨永平. (2019). 蔓菁基因组对葡萄糖苷生物合成独立进化的启示. 自然通讯, V34(4), 848-854.

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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