A Big Earth Data Platform for Three Poles

**Genome re sequencing data of main domestic animals (chickens) (2020-2022)**

1、Description

In order to describe the distribution pattern of genetic diversity of main domesticated animals in the Qinghai Tibet Plateau and its surrounding areas (Pan third pole area), and clarify its related genetic background. In 2020, we extracted the total DNA from 266 global chicken blood, tissue and other DNA tissue samples, built a database and sequenced the whole genome. At the same time, we downloaded the published chicken genome data, and carried out population analysis of 863 chicken genomes, so as to provide basic data for exploring the historical events of domestication, migration and expansion of domestic chickens in the pan third pole region, and further explore the adaptation mechanism of domesticated animals to harsh environments such as drying. Articles related to this data set have been published. All data in this data set can be downloaded online from fastq, BAM, VCF and SNP files.

2、Keywords

Theme：Biological Resources,Domestic animal,Others  
Discipline：Others,Human-nature Relationship  
Places：Pan-third pole  
Time：2020-2022

3、Data details

1.Scale：None

2.Projection：

3.Filesize：1400000.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：43.3 | - |
| west：89.53 | - | east：104.22 |
| - | south：31.34 | - |

5、Time frame:2019-12-31 16:00:00+00:00--2022-02-27 16:00:00+00:00

6、Reference method

References to data:

PENG Minsheng. Genome re sequencing data of main domestic animals (chickens) (2020-2022). A Big Earth Data Platform for Three Poles, doi:10.11888/HumanNat.tpdc.2723162022

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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