A Big Earth Data Platform for Three Poles

**Three dimensional chromatin structure of umbilical cord endothelial cells from modern Tibetan population in Tibet (2010-2020)**

1、Description

1) Data content: this data is the chromatin open group data of umbilical cord endothelial cells of Plateau Tibetan and plain Han people generated during the implementation of the project, including 5 cases of Plateau Tibetan umbilical cord endothelial cell chromatin open group data and 5 cases of plain Han umbilical cord endothelial cell chromatin open group data. The amount of chromatin open group data of each cell is > 15g sequencing depth, which can be used to study the high-risk factors The chromatin opening pattern and gene expression regulation pattern of the original Tibetan population and the plain Han population in high altitude hypoxia environment.
2) Data sources and processing methods: Based on our own data, we used the 150 BP pair end sequencing method of Illumina x-ten.
3) Data quality: > 15g data volume, q30 > 90%.
4) Data application achievements and prospects: the data are used to verify the open mode of cell chromatin and gene expression change mode of high altitude hypoxia adaptation genes under hypoxia environment.

2、Keywords

Theme：Genetic diversity,Population,High altitude adaptation,Tibetan ethnic group,High altitude acclimatization,Han ethnic group,Adaptive mechanism,Sites
Discipline：Human-nature Relationship
Places：Tibet Autonomous Region
Time：2010-2020

3、Data details

1.Scale：None

2.Projection：

3.Filesize：100000.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：0.0 | - |
| west：0.0 | - | east：0.0 |
| - | south：0.0 | - |

5、Time frame:None--None

6、Reference method

References to data:

QI Xuebin. Three dimensional chromatin structure of umbilical cord endothelial cells from modern Tibetan population in Tibet (2010-2020). A Big Earth Data Platform for Three Poles, doi:10.11888/Ecolo.tpdc.2712012021

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

name: QI Xuebin
unit:
email: qixuebin@mail.kiz.ac.cn