

Project Title:

Measurement of Chromatin Architecture, and its Function in Regulating Neuronal Activity.

Name:

Fangke Xu

Laboratory at RIKEN:

Center for Brain Science, laboratory for Neurodiversity

1. Background and purpose of the project,
relationship of the project with other projects

The major goal was to investigate chromatin structure and gene expression changes in neurons at different activity states and/or neurons from mutants showing abnormal neuronal activities. The subgroup of neurons of interest is specific.

2. Specific usage status of the system and
calculation method

We are using Hokusai to process large amount of sequencing data.

3. Result

Due to experimental technical issues, we delayed the sequencing schedule. But we successfully made libraries for 3 experiments with replicates. The libraries were sent out at the beginning of 2023, so we are expecting to use Hokusai in March to process the data.

4. Conclusion

5. Schedule and prospect for the future

Depending on the results we will get in this March, we will plan more experiments and continue using Hokusai in 2023.

6. If no job was executed, specify the reason.