Questionnaire for Data Processing, Analysis, and Interpretation for ATAC-seq

## Project Background: Brief description of the project

## Expected deliverables: Please choose the deliverables below and/or specify any additional items/requirements

Please specify the species below by clicking the checkbox or provide other resource.

|  |  |  |  |
| --- | --- | --- | --- |
| Standard species | Human (Homo sapiens) | hg38 (GRCh38) (recommend) | [ ]  |
| hg19 (old version) | [ ]  |
| Mouse (Mus musculus) | mm10 (GRCm38) | [ ]  |
| Other species |  | [ ]  |

## Standard deliverables:

|  |  |  |
| --- | --- | --- |
| Analysis Item | Y/N | If yes, any specific requirements? |
| QC Statistics  | [ ]   |  |
| Deduplicates | [ ]   |  |
| Filter mitochondrial reads | [ ]   |  |
| Sequence alignment | [ ]   |  |
| Replication quality metrics (IQR plots) | [ ]   |  |
| Peak calling | [ ]   |  |
| Peak calling statistics | [ ]   |  |
| Enrichment analysis (TSS enrichment, peak enrichment | [ ]   |  |
| PCA and sample correlation heatmaps to check sample clustering | [ ]   |  |
| Differential bind analysis \* | MA plots | [ ]   |  |
| Volcano plots  |  |
| P-value, FDR, FC table |  |

### Optional deliverables **(each item is additional charges and may affect turnaround time, please request specific pricing from PM team)**:

|  |  |  |
| --- | --- | --- |
| **Analysis Item** | **Y/N** | **If yes, any specific requirements?** |
| Motif analysis | [ ]  |  |
| DB annotation and GO/KEGG (for species with DB only) | [ ]  |  |

\* If Differential bind analysis is chosen, please specify the detailed group comparison information below:

For example:

Group A: Sample 1, 2

Group B: Sample 3, 4

Group C: Sample 5, 6

Group D: Sample 7, 8

Group A vs. Group B, Group C vs. Group D

|  |
| --- |
|  |

If any specific version of genome sequence, annotation file, or software/packages/tools for data analyze is needed, please specify it below:

|  |
| --- |
|  |

If any other customized data analysis request, please describe below. Please note that it is not guaranteed to be accepted and might incur additional cost.

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|  |

## References: Please attach and or provide links of the relevant references as per your project