

CLAIMS

1. A method, comprising:
 - presenting descriptions of one or more data processing techniques, wherein the descriptions include one or more of the following: data formatting requirements, data processing price, and/or data processing priority level;
 - inputting data, wherein the data corresponds to source data for gene sequencing on a sample;
 - receiving a selected data processing technique, wherein the selected data processing technique is one of the one or more data processing techniques;
 - performing, using the selected data processing technique, gene sequencing processing on the inputted data based on a pathogen genome of a predetermined pathogen to obtain a data processing result, wherein the data processing result indicates whether the sample includes the predetermined pathogen; and
 - presenting the data processing result.
2. The method as described in claim 1, wherein prior to the receiving of the selected data processing technique, the method further comprises:
 - presenting a plurality of data processing techniques and the corresponding principles, advantages, and disadvantages of the plurality of data processing techniques.
3. The method as described in claim 1, wherein the performing of the gene sequencing process on the inputted data comprises:
 - converting the data to a gene sequence format to obtain reads;
 - comparing the reads to the pathogen genome of the predetermined pathogen;
 - determining whether the reads are included in the pathogen genome;
 - assembling the reads into a sample genome; and
 - by aligning the sample genome with the pathogen genome, obtaining the data processing result, wherein the data processing result indicates whether the sample includes the predetermined pathogen.
4. The method as described in claim 1, wherein the presenting of the data processing result comprises:
 - presenting a probability that the sample includes the predetermined pathogen.
5. The method as described in claim 4, wherein the presenting of the data processing result comprises:

- presenting variant sites of the predetermined pathogen.
6. The method as described in claim 1, further comprising:
generating and printing a report including the data processing result.
7. The method as described in claim 1, wherein the predetermined pathogen is a single pathogen.
8. A system, comprising:
a processor; and
a memory coupled with the processor, wherein the memory is configured to provide the processor with instructions which when executed cause the processor to:
present descriptions of one or more processing techniques, wherein the descriptions include one or more of the following: data formatting requirements, data processing price, and/or data processing priority level;
input data, wherein the data corresponds to source data for gene sequencing on a sample;
receive a selected data processing technique, wherein the selected data processing technique is one of the one or more data processing techniques;
perform, using the selected data processing technique, gene sequencing processing on the inputted data based on the pathogen genome of a predetermined pathogen to obtain a data processing result, wherein the data processing result indicates whether the sample includes the predetermined pathogen; and
present the data processing result.
9. A computer program product being embodied in a tangible non-transitory computer readable storage medium and comprising computer instructions for:
presenting descriptions of one or more data processing techniques, wherein the descriptions include one or more of the following: data formatting requirements, data processing price, and/or data processing priority level;
input data, wherein the data corresponds to source data for gene sequencing on a sample;
receiving a selected data processing technique, wherein the selected data processing technique is one of the one or more data processing techniques;

performing, using the selected data processing technique, gene sequencing processing on the inputted data based on the pathogen genome of a predetermined pathogen to obtain a data processing result, wherein the data processing result indicates whether the sample includes the predetermined pathogen; and
presenting the data processing result.