WHAT IS CLAIMED IS:

1. A method of providing biological data, the method comprising:

acquiring, by a data processing device, a biological data set selected from a biological data pool;

encrypting, by the data processing device, biological data included in the acquired biological data set to produce encrypted biological data;

transferring, by the data processing device, the encrypted biological data to a user;

receiving, by the data processing device, a result of analysis on the encrypted biological data from the user; and

transferring, by the data processing device, information on the encrypted biological data included in the result of the analysis to the user,

wherein the biological data set comprises biological data for each of a plurality of subjects, and

the data processing device encrypts the biological data included in the selected biological data set by using a key determined according to a criterion for selecting the plurality of subjects.

2. The method according to claim 1, further comprising: receiving, by the data processing device, information used to

select the biological data set from the biological data pool from the user.

3. The method according to claim 1, wherein the biological data includes at least one type of data selected from among genotype data, phenotype data, and medical data.

4. The method according to claim 1, wherein the key is determined according to time and the criterion.

5. The method according to claim 1, wherein the key is determined according to at least one type of information included in an information set comprising race, age, weight, height, sex, disease status, disease type, the number of groups constituting the biological data set, and the number of biological data entries included in each of the groups.

6. The method according to claim 1, wherein:

the data processing device encrypts the biological data by hashing the biological data on the basis of the key, and

the data processing device generates the information by decrypting the encrypted biological data included in the result of the analysis by using a table including a hash value of the biological data and an original value of the biological data.

7. The method according to claim 1, wherein the data processing device encrypts at least one item of genetic variant information comprising a genetic identifier, a genetic location, and a genetic trait, among items of the biological data.

8. The method according to claim 1, wherein the data processing device stores the encrypted biological data in a block chain.

9. A method of encrypting biological data, the method comprising:

receiving, by a data processing device, a biological data pool;

selecting, by the data processing device, a biological data set from the biological data pool according to classification information; and

encrypting, by the data processing device, each biological data entry included in the biological data set,

wherein the biological data set comprises biological data for each of a plurality of subjects, and

the encrypting is performed with a key that is determined according to a criterion for selecting the plurality of subjects.

10. The method according to claim 9, wherein the biological data comprises at least one type of data selected from among genotype data, phenotype data, and medical data.

11. The method according to claim 9, wherein the key is determined according to the classification information or according to the classification information and time information.

12. The method according to claim 9, wherein the classification information is at least one type of information selected from an information set comprising race, age, weight, height, sex, disease status, disease type, the number of groups constituting the biological data set, and the number of biological data entries included in each of the groups.

13. The method according to claim 9, wherein the data processing device encrypts at least one item of genetic variant information comprising a genetic identifier, a genetic location, and a genetic trait, among items of the biological data.

14. A biological data processing device comprises:

a storage device configure to store a biological data

pool and a program for encrypting biological data included in a biological data set; and

a processor configure to select the biological data set from the biological data pool according to classification information, and encrypt the biological data included in the biological data set selected by the program,

wherein the biological data set comprises the biological data for each of a plurality of subjects,

the encryption is performed with a key determined according to a criterion for selecting the plurality of subjects.

15. The device according to claim 14, wherein the processor configured to determine the key according to the classification information or according to the classification information and time information.

16. The device according to claim 14, wherein the classification information is at least one type of information selected from an information set comprising race, age, weight, height, sex, disease status, disease type, the number of groups constituting the biological data set, and the number of biological data entries belonging to each of the groups.

17. The device according to claim 14, further comprising

a communication device configured to transmit the encrypted biological data.

18. The device according to claim 17,

wherein the storage device further configured to store a table containing hash values for the biological data and original values for the biological data;

wherein the communication device further configured to receive a result of analysis on the encrypted biological data; and

wherein the processor further configured to decrypt the encrypted biological data included in the result of the analysis by using the table.

19. The device according to claim 14, wherein the processor configured to encrypt at least one item of genetic variant information comprising a genetic identifier, a genetic location, and a genetic trait, among items of the biological data.