

## I. MJ Biobank Sample Application Fees

MJ Biobank offers annotated biological samples to research institutes or companies currently conducting biomedical research. Additionally, biological sample data can be linked to Health Survey data and Biodata to provide more health information to the research staff. Details regarding fee schedule is as follows:

### A. General Applications (Academic Research)

- i. Applicant Qualifications: An applicant is defined as any domestic or international academic biomedical research body. A proof of corporate or academic identity is required at the time of application. The Center will not accept any application from an individual.
- ii. Maximum Sample Size: unlimited.
- iii. Maximum Variable Size: total number of variables from both Health Survey and Biodata databases should not exceed 200<sup>1</sup>.
- iv. Authorized Period of Sample Use: unlimited.
- v. Biological samples and the associated data shall only be accessed by research staff directly involved in the study and used only within the scope described in the study proposal. Samples and Data shall not be copied or distributed to anyone outside the aforementioned study.
- vi. Fee Schedule

Item	Description	Fee (USD)
Application & Review Fee	Administrative review fee for the application procedure.	\$350
Data Processing Fee	Covers processing of questionnaire and physical examination data. Additional charges may apply for more complex applications.	\$300
Sample Retrieval Fee	Charged per requested sample tube.	\$5 per tube
Data Management Service Fee - Questionnaire Data	Covers costs of error-checking prior to release, including manpower and equipment. Questionnaire includes: demographics (excluding personally identifiable information), personal and family medical history, current status, lifestyle (smoking, alcohol, betel nut chewing, exercise), dietary habits, etc. ~100+ questions.	number of samples x number of variables x 0.02
Data Management	Includes basic examinations (height, weight,	

<sup>1</sup> Basic background information is a mandatory variable and does not count towards the limit of 200 variables. Biodata has a limit of 70 variables, and health questionnaire data has a limit of 130 variables for the application.

Service Fee - Physical Examination Data	body fat, waist, hip, blood pressure, pulse, respiration, etc.) and laboratory tests (blood, urine, white blood cell differential, glucose, liver function, kidney function, uric acid, lipids, calcium, phosphorus, serum iron, hepatitis B, tumor markers, thyroid function, inflammation markers, colorectal cancer screening, etc.), ~100+ data items.	number of samples x number of variables x 0.02
Sample Management Service Fee	Covers manpower, consumables, storage equipment, utilities, etc. related to collection and preservation of samples. Samples include serum (0.5 ml), plasma (1 ml), buffy coat (0.2 ml).	\$35 per tube
Sample Value-Added Service Fee - Genome-wide Genotyping	Covers expenses for value-added analysis including cold-chain logistics, extraction, and instrument analysis. Current genomic analysis is performed with genome-wide SNP arrays.	\$200 per person
Sample Value-Added Service Fee - Immune-related Proteomics	Proteomics analysis focused on immune-related proteins.	\$7 per item
Urine Samples	Fees to be determined (service not yet available).	Not yet available
Tissue Samples	Fees to be determined (service not yet available).	Not yet available
Derivative Processing Fee	Charged according to the category of derivative requested.	Variable
Sample Transportation Fee	Charged based on actual transportation costs.	Actual cost

Note: Between 2002-2008, 10 ml of blood was drawn into 1 K3E EDTA K3 tube, centrifuged and divided into 2 tubes of plasma (1 ml each) and 2 tubes of buffy coat (0.25ml each), while 5-8 ml of blood was drawn into 1 Z Serum Sep Clot Activator tube, centrifuged and divided into 5 tubes of serum (0.5ml each). Since 2015, 20 ml of blood was drawn into 2 K2 EDTA tubes (10ml each), centrifuged and divided into 2 tubes of plasma (1 ml each) and 5 tubes of buffy coat (0.25ml each), while about 8 ml of blood was drawn into 1 SST Plus tube, centrifuged and divided into 5 tubes of serum (0.5ml each).

## B. Industry Applications (Non-Academic Research)

- i. Applicant Qualifications: An applicant is defined as any domestic or international private company in the biotech/pharmaceutical industries. A proof of corporate or academic identity is required at the time of application. The Center will not accept any application

from an individual..

- ii. Maximum Sample Size: unlimited.
- iii. Maximum Variable Size: total number of variables from both Health Survey and Biodata databases should not exceed 200<sup>2</sup>.
- iv. Authorized Period of Sample Use: unlimited.
- v. Biological samples and the associated data shall only be accessed by research staff directly involved in the study and used only within the scope described in the study proposal. Samples and Data shall not be copied or distributed to anyone outside the aforementioned study.
- vi. Fee Schedule

Item	Description	Fee (USD)
Application & Review Fee	Administrative review fee for the application procedure.	\$350
Data Processing Fee	Covers processing of questionnaire and physical examination data. Additional charges may apply for more complex applications.	\$300
Sample Retrieval Fee	Charged per requested sample tube.	\$5 per tube
Data Management Service Fee - Questionnaire Data	Covers costs of error-checking prior to release, including manpower and equipment. Questionnaire includes: demographics (excluding personally identifiable information), personal and family medical history, current status, lifestyle (smoking, alcohol, betel nut chewing, exercise), dietary habits, etc. ~100+ questions.	number of samples x number of variables x 0.05
Data Management Service Fee - Physical Examination Data	Includes basic examinations (height, weight, body fat, waist, hip, blood pressure, pulse, respiration, etc.) and laboratory tests (blood, urine, white blood cell differential, glucose, liver function, kidney function, uric acid, lipids, calcium, phosphorus, serum iron, hepatitis B, tumor markers, thyroid function, inflammation markers, colorectal cancer screening, etc.), ~100+ data items.	number of samples x number of variables x 0.05
Sample	Covers manpower, consumables, storage	\$100 per tube

<sup>2</sup> Basic background information is a mandatory variable and does not count towards the limit of 200 variables. Biodata has a limit of 70 variables, and health questionnaire data has a limit of 130 variables for the application.

Management Service Fee	equipment, utilities, etc. related to collection and preservation of samples. Samples include serum (0.5 ml), plasma (1 ml), buffy coat (0.2 ml).	
Sample Value-Added Service Fee - Genome-wide Genotyping	Covers expenses for value-added analysis including cold-chain logistics, extraction, and instrument analysis. Current genomic analysis is performed with genome-wide SNP arrays.	\$600 per person
Sample Value-Added Service Fee - Immune-related Proteomics	Proteomics analysis focused on immune-related proteins.	\$20 per item
Urine Samples	Fees to be determined (service not yet available).	Not yet available
Tissue Samples	Fees to be determined (service not yet available).	Not yet available
Derivative Processing Fee	Charged according to the category of derivative requested.	Variable
Sample Transportation Fee	Charged based on actual transportation costs.	Actual cost

Note: Between 2002-2008, 10 ml of blood was drawn into 1 K3E EDTA K3 tube, centrifuged and divided into 2 tubes of plasma (1 ml each) and 2 tubes of buffy coat (0.25ml each), while 5-8 ml of blood was drawn into 1 Z Serum Sep Clot Activator tube, centrifuged and divided into 5 tubes of serum (0.5ml each). Since 2015, 20 ml of blood was drawn into 2 K2 EDTA tubes (10ml each), centrifuged and divided into 2 tubes of plasma (1 ml each) and 5 tubes of buffy coat (0.25ml each), while about 8 ml of blood was drawn into 1 SST Plus tube, centrifuged and divided into 5 tubes of serum (0.5ml each).