

Donation Request Plan

1. Donation program

Bioresource characteristic information analysis support

2. Project utilizing the donations

(1) Project name

Bioresource characteristic information analysis support project

(2) Purpose

“Bioresources” is a term that refers to the biological and genetic resources that are essential materials for research and development such as animals, plants, and microorganisms.

As one of the world’s leading scientific infrastructures for bioresources, RIKEN BioResource Center (BRC) collects and preserve 5 types of bioresources used in the life science fields and their associated information with respect to the needs of society and the research community (categories: laboratory mouse strains, experimental plants, cell lines of animal, and human origin such as iPS cells, microorganisms, and genetic materials), and distributes them to researchers who need them in Japan and around the world.

BRC has achieved approximately 15,000 distributions of bioresource to domestic and international research institutions per year, and a total of about 310,000 distributions since its founding. BRC also analyzes a database of characteristic information helpful in the use and application of bioresources such as genome and phenotype information.

In life science research in recent years, advances in measurement technologies such as DNA sequencing and imaging have made it possible to obtain large volumes of high-resolution characteristic information, and it is now common to combine various kinds of data in one research project. It has thus become crucial to have not only bioresources, but also their characteristic information.

In order to distribute bioresources with characteristic information and greater added value that fulfil these societal and research needs, this project will accelerate the analysis of characteristic information, thereby contributing to life science research.

(3) Project description

① Representative

RIKEN BioResource Research Center

Director, Shiroishi Toshihiko

② Details

In order to distribute bioresources with characteristic information and greater added value that fulfil these societal and research needs, this project will accelerate the analysis of characteristic information, thereby contributing to life science research.

- Japan Mouse Clinic project
- Whole genome analysis of wild Arabidopsis strains
- Whole genome analysis of disease-specific iPS cells
- Verification of genetic materials through accurate DNA sequencing
- Genomic analysis, mass spectrometry, and culture imaging of microbes

3. Donation call amount

1,352,000,000 JPY

4. Donation call duration

July 1, 2024 - March 31, 2034

5. Spending plan (guide)

• Japan Mouse Clinic project	375 mil. JPY
• Whole genome analysis of wild Arabidopsis strains	95 mil. JPY
• Whole genome analysis of disease-specific iPS cells	180 mil. JPY
• Verification of genetic materials through accurate DNA sequencing	300 mil. JPY
• Genomic analysis, mass spectrometry, and culture imaging of microbes	284 mil. JPY
• General administrative costs (10% of amount raised)	122 mil. JPY

6. Call procedures/methods

- Posting on the RIKEN website (<https://www.riken.jp/en/about/support/>)
- Posting on the BRC website (<https://web.brc.riken.jp/en/>)

7. Other important matters

By donating to RIKEN, you can receive tax benefits for Japanese taxes (income and corporation tax, inheritance tax) and local taxes for some municipalities (individual inhabitant tax). See RIKEN's webpage on donation benefits for more details. (Japanese only:

<https://www.riken.jp/support/benefits/#tax>)

8. Inquiries

RIKEN BioResource Research Center

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