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| Safety Supervisor |  | Confirmation by Safety Office |  | Receipt by the Safety Office | 20YY, MM, DD |
|  |

Application Form for Genetic Modification Experiment

Date of submission:

To: The Director General, Japan Synchrotron Radiation Research Institute

(Person in charge of experiment)1)

Name of the organization

Department and title

Name (print and signature)

（Head of Department）2）

Name (print and signature)

To carry out the following genetic modification experiment, I hereby apply for approval of the genetic recombination committee.

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| Receipt number3) |  |
| Type of application4) | □ New  □ Renewal (Previous receipt number )  □ Amendment (Previous receipt number |
| Title of experiment5) |  |
| Type of experiment6) | □ Microbiology experiment  □ Large-scale cultivation experiment  □ Animal experiment (□ Animal inoculation･□ Animal modification)  □ Plant experiment (□ Plant inoculation･□ Plant modification･□ Fungus modification) |
| The purpose |  |
| Summary7) |  |
| Expected duration of experiment8) |  |
| Contact information of the person in charge of the experiment | Address (Postal code)  Phone (ext./PHS)  Fax:  E-mail: |
| Other contacts9)) | Organization and department of the person in charge of communications  Name of the person in charge of communications  Address (Postal code)  Phone (ext./PHS)  Fax:  E-mail: |

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| Place of the experiment (place for animal keeping and raising)10) and place for storage of genetically modified organisms11)) | | | | | | | | |
| Building | Room | Containment measures | | | | | | |
| P1 | P1A | P1P | P2 | P2A | P2P | Storage |
| Experiment Hall | □BL20B2 experimental hutch |  |  |  |  |  |  |  |
| □BL28B2 optics hutch |  |  |  |  |  |  |  |
| □BL40XU experimental hutch |  |  |  |  |  |  |  |
| □BL20B2 animal operation room |  |  |  |  |  |  |  |
| □Mobile operation room |  |  |  |  |  |  |  |
| □ BL38B1 experimental hutch |  |  |  |  |  |  |  |
| □PX-BL\* experimental hutch |  |  |  |  |  |  |  |
| Experimental Animal  Facility | □Mouse room |  |  |  |  |  |  |  |
| □Genetic experiment room |  |  |  |  |  |  |  |
| □Treatment room |  |  |  |  |  |  |  |
| Medium-length Beamline Facility  (Experiment building) | □BL20B2 experimental hutch |  |  |  |  |  |  |  |
| □BL20XU experimental hutch |  |  |  |  |  |  |  |
| □Animal operation room |  |  |  |  |  |  |  |
| Medium-length Beamline Facility  (Research building) | □Room 101 |  |  |  |  |  |  |  |
| □Room 201 |  |  |  |  |  |  |  |
| □Room 202 |  |  |  |  |  |  |  |
| □Room 204 |  |  |  |  |  |  |  |
| □Room 212 |  |  |  |  |  |  |  |
| □Room 213 |  |  |  |  |  |  |  |
| □Biochemistry lab 1 Room 208 |  |  |  |  |  |  |  |
| □Biochemistry lab 2 Room 209 |  |  |  |  |  |  |  |
| □Biochemistry lab 3 Room 210 |  |  |  |  |  |  |  |
| SACLA | □Experimental hutch (EH3) |  |  |  |  |  |  |  |
| □Biological sample prep. room |  |  |  |  |  |  |  |
| Structural Biology Experimental Facility | □Room 103 |  |  |  |  |  |  |  |
| □Room 112 |  |  |  |  |  |  |  |
| Others  (give the name of the building and room) |  |  |  |  |  |  |  |  |
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\* PX-BL includes BL41XU, BL45XU, BL32XU and BL26B1/B2.

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| Nucleic acid donor/Donor nucleic acid12) | | | | | |
| Nucleic acid donor | Experiment  classification | Donor nucleic acid (type of nucleic  acid) | Identification | | Note |
| (Target gene) |  |  | Completed/Not completed | |  |
|  |  |  |  | |  |
|  |  |  |  | |  |
| (Expression regulatory gene) |  |  |  | |  |
|  |  |  |  | |  |
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|  |  |  |  | |  |
| (Selectable marker gene) |  |  |  | |  |
|  |  |  |  | |  |
| Host/vector13) | | | | | |
| Host | Experiment classification | Vector | Type | Note | |
|  |  |  | Microorganism/Animal/Plant |  | |
|  |  |  |  |  | |
| Characteristics of animals, plants, or cells that possess genetically modified  organisms.14) |  | | | | |
| Table of genetically modified organisms and containment measures.15) | as per attached | | | | |
| Method of inactivation of  genetically modified  organisms.16) |  | | | | |
| Note17) |  | | | | |

※Notes

1) The person in charge of the experiment should be familiar with related laws and regulations, should have acquired the knowledge and skills to prevent biohazards, and should be able to take responsibility for the experiment.

2) Signature of the head of faculty, school or institute of Project Leader is required.

3) Since "Proposal number" is informed after Safety Office receives this application, leave this column blank. Proposal number is required for all the documents for which you will submit in the future.

4) For “Type of Application,” select any items under which your application falls. For Continuation or Changes, give the previous proposal number.

5) For “Title,” provide a title that expresses the objective and an outline of this genetic recombinant experiment briefly.

6) For “Type,” select all items under which this genetic recombinant experiment falls.

7) For “Outline,” together with the purpose and procedures of the experiment, all genetically modified organisms involved in this genetic recombinant experiment and the containment measures to be taken during the experiment shall be given.

8) The experiment is valid for a maximum of three years from the approved day.

9) For “Other contact,” if there is a contact person for administrative matters other than Project Leader or Deputy Project Leader, give the information of the contact.

10) For “Laboratory, Experiment area, Experiment section (include the area of the breeding animals or culture of plants) ,” select all areas under which this genetic recombinant experiment falls. If there is no appropriate column, give the names of the facility and the room in the proper column.

11）For “Facility of Storage,” select all area that storage genetically modified organisms in the process of a genetic recombination experiment. If there is no appropriate column, give the names of the facility and the room in the proper column.

12) For “Donor organism/Donor nucleic acid,” the following shall be given about the donor organism and donor nucleic acid of the genetically modified organism for the Genetic recombination experiment (including target genes, expression regulatory genes, drug-resistant genes and marker genes).

a. General name and taxonomical position (family, genus, species, strain) of donor organism

b. General name and type (such as genomic nucleic acid, complementary deoxyribonucleic acid or synthesized nucleic acid) of donor nucleic acid.

c. Attach copy of nucleotide sequence information or an accession number to the nucleotide sequence database of, for example, the Japan DNA Databank (only in the case of donor nucleic acid that is identified nucleic acid).

13) For “Recipient organism/Vector,” the following shall be given about the recipient organism and vector of the genetically modified organism for the Genetic recombination experiment.

a. General name and taxonomical position (family, genus, species, strain) of recipient organism

b. General name, code and short explanation (ex. pUC119 cloning vector for *E.coli*)

c. For “Type,” select Microorganisms, Animals or Plants.

14) For “Characteristics of animal, plant or cell which retains genetically modified organisms,” in addition to items those mentioned below, characters expected to be newly given or already given to an animal, a plant or a cell which retains the genetically modified organism for Genetic recombination experiment in comparison with animals, plants or cells which do not retain the genetically modified organisms Genetic recombination experiment shall be mentioned.

a. Taxonomical position and experiment classification of animal, plant or cell which retains genetically modified organism;

b. State of distribution in natural environment and environment in which genetically or growth is possible;

c. Pathogenicity, production of harmful substances and other properties;

15) For “Table of genetically modified organisms and containment measures,” all donor organisms, donor nucleic acids, vectors, recipient organisms and animals, plants or cells which retain genetically modified organism involved in the genetic recombination experiment and the categories of containment measures to be taken during the experiment shall be provided.

16) For “Measure for inactivating genetically modified organisms,” give a measure for inactivating waste products containing the genetically modified organism and the apparatus and appliances to which the genetically modified organism sticks.

17) Provide a note when you have received a public grant (such as Grant-in-Aid for Scientific Research from the Ministry of Education, Culture, Sports, Science and Technology) affiliated with JASRI, when the research proposal is for a position paper of the Ministry of Education, Culture, Sports, Science and Technology, or when you have special comments.

Attachment

Table of genetically modified organisms and containment measures.

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| --- | --- | --- | --- | --- | --- | --- |
| Nucleic acid donor | Donor nucleic acid | Vector | Host etc. | Possessing  organisms | Containment Measure  Classification | Note |
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