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### Subteam for Manipulation of Cell Fate

#### Hiroyuki Miyoshi Subteam Leader

#### 1. Are the proposed goals appropriate for this Team (Division or Unit)?

- 1) Are these goals meaningful and valuable for the BRC?  
Are the goals of this team in accordance with the BRC's own goal of "facilitating the finest bioresources of the global standard"?

Yes, because it is related to iPS and stem cells.

In the future, this may transfer to human lines, and contribute to the safety evaluation and standardization of iPS cells.

Are there defined programs or plans to accomplish their goals and to contribute to achieving the BRC's goals?

They are clear on the methodology. Regarding iPS research, in view of BRC's mission, cooperation on the standardization (quality control) of iPS cells is also important.

- 2) Are the goals achievable within this Midterm of five years?

At the current stage, the final destination is not clear, but they will achieve some positive results they expect. Since rapid progress will be made in this field, they would be often required to make adjustments as needs arise.

- 3) Are the goals proposed from the international point of view? (Does this goal lead to international leadership?)

They are internationally competitive and their goal is connected to leadership. In particular, a lentiviral vector is a highly international and original technology.

#### 2. Are the proposed plans adequate to achieve the goals of this Team (Division or Unit)?

- 1) Are these plans realistic and specific to achieve the goals?

They address head-on the important issues. They will

respond flexibly to technological developments regarding the generation of iPS cells with lentiviral vectors.

- 2) Are these plans high priority in BRC and critical for the BRC?

The improvement and greater use of lentiviral vectors is an appropriate and high priority research project for BRC.

- 3) Do the plans have originality in ideas and technology? (not merely a follow up?)

Development of lentiviral vectors is highly original.

- 4) Are the plans achievable with the allocated research resources (budget and man power)?

As they do the research, they should focus on the most promising research projects.

- 5) Does the Team (Division or Unit) have sufficient experience and a record of achievements to carry out the plans?

They are highly skilled and experienced in stem cell research.

### 3. Other

They need to actively pursue collaborative iPS cell research both inside and outside RIKEN.

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