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### Team for Advanced Development and Evaluation of Human Disease Models

#### Tetsuo Noda Team Leader

#### 1. Are the proposed goals appropriate for this Team?

##### 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"?

The goal of this research is to enhance value of resources by adding information using a powerful development system and leading-edge analysis technology, which matches the goals of the center. Since the goals they have set are very high, we would like them to find collaborations, including those within RIKEN.

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

This is leading research and it is clear how it will contribute to BRC. In particular, the way to the goal of the manipulation of cancer is clearly proposed. Especially it is important to concentrate on the research on control of metastasis.

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

We think it is basically possible to achieve it. The deafness project is straightforward. However, for other part of the projects it may be important to focus more clearly on the objectives.

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

The goals set up have a strong basis, which will lead to the international leadership.

#### 2. Are the proposed plans adequate to achieve the goals of this Team

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

All three plans are very concretely specified.

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

Since it is based on the use of ENU mice, etc., we think it has a high priority. As individual research it is excellent, and it will raise the academic standing of the BRC.

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

It is original. In particular the carcinogenic model and the lifestyle disease model are high-quality. However, the research goals of the metabolome and the NMD inhibitor research in disease are not entirely clearly described.

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

It is a big plan, so in order to realize it, we think they will need a lot of budget from RIKEN as well as new external funding.

5) Does the Team have sufficient experience and a record of achievements to carry out the plans?

From the results so far, they have enough experience. Since it is a big plan, we advise them to think about focusing on some projects.

### 3. Other

They need to build a satellite.

They need to build collaborations with other groups at the BRC and also with other research institutions, particularly clinical ones.

They need to reassess the efficacy of iTRAQ for detection of proteins with low expression level.

