

# 4. Activities

## 4-1. Symposium

### National Bioresource Project Symposium “ Current Status and future prospect of Bioresources in Japan” and Bioresource Panel Display

This symposium was held together with 27th Annual Meeting of the Molecular Biology Society of Japan, for the purpose of earning publicity of National Bioresource Projects and exchange opinions for promotion of the project in the future. Approximately 230 people attended in the symposium and 560 people joined in the panel display.

Dr. Yuich OBATA, Dr. Atsushi YOSHIKI and Dr. Yukio NAKAMURA participated in the symposium as speakers, and Dr. Yuich OBATA also chaired sessions. In addition, Dr. Kazuo MORIWAKI gave a summary of a whole symposium and closing remarks.

Date: Symposium: December 9 (Thurs.), 2004

Panel Display: December 8-11, 2004

Place: International Conference Center KOBE

Style: Open to the public / Free

Program:

(Speech)

Kimihiko ODA (Deputy Director General, Research Promotion Bureau, MEXT)

(Keynote Speech)

Hiroo IMURA (Honorary Professor, Kyoto University / President, Foundation for Biomedical Research and Innovation)



## 2003 ~ 2005

(Lecture)

National Bioresource Project

Yuji KOHARA (Director General, National Institute of Genetics)

Information Center Program

Yukiko YAMAZAKI (Center for Genetic Resources Information, National Institute of Genetics)

National Bioresource Project – Mouse

Yuichi OBATA (Head, Department Biological Systems, BRC)

National Bioresource Project- Drosophila

Masatoshi YAMAMOTO (Drosophila Genetic Resource Center, Kyoto Institute of Technology)

National Bioresource Project “Lotus / Glycine”

Ryo AKASHI (Department of Biological Production and Environmental Science, Miyazaki University)

National Bioresource Project –E.coil

Akiko NISHIMURA (National Institute of Genetics, Genetic Strains Research Center)

Meaning and overview of infrastructure for distribution system of human cell

Yukio NAKAMURA (Head, Cell Engineering Division, BRC)

(Summary)

Kazuo MORIWAKI (Director, BRC)

(Closing Remarks)

Kazuo MORIWAKI (Director, BRC)

Panel Display:

1. Development, Collection, Preservation, and Distribution of Experimental Animal – Mouse
2. Development of animal models for human diseases by ENU-mutagenesis.
3. Mouse Embryo / Sperm Bank System in the Center for Animal Resources and Development
4. Rat phenome project in NBRP-Rat
5. Status and the Future plan of “NBRP-Monkey”
6. Activities of Great Ape Information Network
7. The establishment of infrastructure for studies using *Xenopus tropicalis*
8. National Bioresource Project “Zebra fish”
9. National Bioresource Project “Medaka fish”
10. Promotion of silkworm, model insect –Attraction of silkworm resource
11. Drosophila – Establishment and prospect of genome-wide resources
12. National Bioresource Project “C. elegans”
13. Bioresource in the National Institute of Agrobiological Sciences: Gene Bank & DNA Bank & Resource Center
14. Characteristics of Rice resource and post-genome material
15. Citrus bioresources
16. Diversity of Barley and bioresource
17. National Bioresource Project “Wheat”
18. Arabidopsis seeds, plant cultured cells and plant genetic materials
19. National Bioresource Project “Lotus / Glycine”
20. National Bioresource Project “Lotus / Glycine”
21. National Bioresource Project” Chrysanthemum”
22. Collection, Preservation, and Distribution of Algae - National Bioresource Project “Algae”
23. National Bioresource Project “Yeast”
24. Collection, Preservation, and Distribution of Pathogenic Microorganisms.

## 2003 ~ 2005

25. National Bioresource Project "E.coil"
26. Establishment of infrastructure of useful microbial genetic resources in NITE.
27. Genes of animal and microorganism
28. Human ES Cell
29. Japanese Collection of Research Bioresources (JCRB) Bank
30. Banking of Human Cell and Animal Cell
31. National Bioresource Project-Information Center

### RIKEN BRC Symposium "Reflect on the Bioresource"

This symposium was held in commemoration of the retirement of Dr. MORIWAKI as the Director of RIKEN BRC.

Date: March 22 (Tues.), 2005

Place: OKURA Frontier Hotel TSUKUBA Annex

Style: Open to the public / Free

Program:

(Opening remarks)

Tsutomu SHIBATA (RIKEN Executive Director)

The history of RIKEN BRC

Kazuo MORIWAKI (RIKEN BRC Director)

(Invitation Lectures)

Hirofumi YONEKAWA (Vice President, The Tokyo Metropolitan Institute of Medical science, Tokyo Metropolitan Organization for Medical Research)

Kazuo SHINOZAKI (Director, Plant Molecular Biology Laboratory)

Tatsutoshi NAKAHATA (Professor and Chairman, Graduate School of Medicine and Faculty of Medicine, Kyoto University)

Junichi MIYAZAKI (Professor, Division of Stem Cell Regulation Research, Osaka University Medical School)

Kenichiro SUZUKI (Director, NITE Biological Resource Center, National Institute of Technology and Evaluation)

Yoshihiro UGAWA (Associate Professor, Miyagi University of Education)

Toshihiko SHIROISHI (Project Director, Genomic Science Center, RIKEN)

Yoshitaka NAGAI (Consultant, Mitsubishi Chemical Cooperation)

Yuichi OBATA (Head, Department of Biological System, BRC)



## National Bioresource Project "Cell" Symposium

In this symposium, there were approximately 250 participant including researchers from universities and private sectors, high school students and so on.

Date: September 29 (Thurs.), 2005

Place: National Museum of Emerging Science and Innovation,  
Miraikan Hall

Style: Open to the public / Free

## Program:

## (Opening Remarks)

Tsutomu SHIBATA (Director, Tsukuba Institute, RIKEN)

## (Guest Speech)

Shigeru KURE (Adjustment Officer, Life Science Division,  
Research Promotion Bureau, MEXT)

## (Speech)

Kazuo MORIWAKI (Special Consultant, RIKEN)

## (Lecture)

## (Session 1)

Radiosensitivity and genetic polymorphism

Takashi IMAI (Project Reader, Frontier Research Center, National Institute of Radiological Sciences)

The status and evolution of treatment for adult T cell leukemia

Naomichi ARIMA (Professor, Center for Chronic Viral Diseases, Kagoshima University Graduate School of Medical and Dental Sciences)

The status of regenerative medicine using stem cell

Tatsutoshi NAKAHATA (Professor, Graduate School of Medicine and Faculty of Medicine, Kyoto University)

## (Session 2)

Establishment and utilization of human ES cells

Norio NAKATSUJI (Professor, Institute for Frontier Medical Sciences, Kyoto University)

Quality test using maker genes of mesenchymal human stem cell

Yukio Kato (Professor, Graduate School of Biomedical Sciences, Hiroshima University)

Bioresources for growth and development - Childhood annular cartilage, placenta, cord blood, endometrium, menses blood, skin, and fat

Akihiro UMEZAWA (Chief, Department of Reproductive Biology and Pathology, National Research Institute for Child Health and Development)

## (Session 3)

Possibility of stem cell research using lentiviral vectors

Hiroyuki Miyoshi (Subteam Reader, Subteam for Manipulation of Cell Fate, BRC)

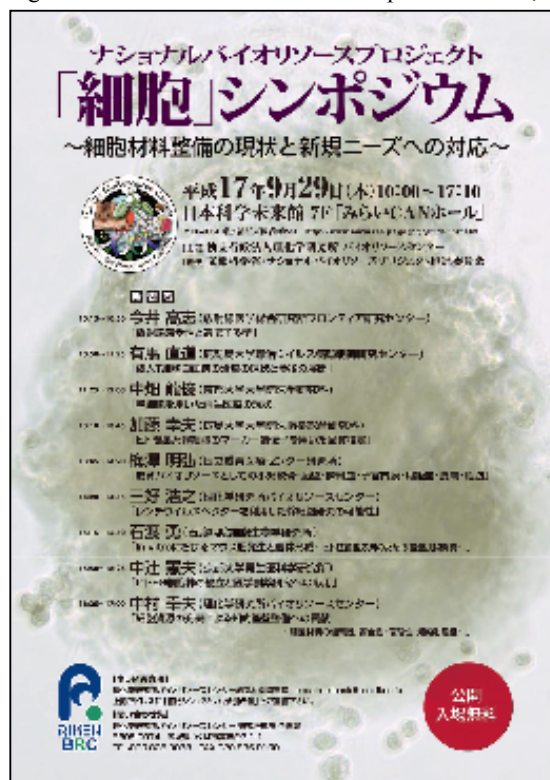
Embryogenesis and individualization of mouse in vitro

Isamu ISHIWATA (Director, Ishiwata Obstetrics and Gynecology Hospital)

Contribution to intellectual infrastructure by enriching cell resources

Yukio NAKAMURA (Head, Cell Engineering Division, BRC)

## (Closing Remarks)





2003 ~ 2005

Yuichi OBATA (Director, BRC)

**The 25th Anniversary Ceremony and Symposium of RIKEN BRC-JCM**

This symposium was held to celebrate the 25th anniversary of RIKEN BRC-JCM. There were oral and poster presentations for promotion of microbiology research in Japan.

Date: October 21 (Fri.), 2005

Place: National Museum of Emerging Science and Innovation, Miraikan Hall

Style: Open to the public / Free

Program:

<Memorial Ceremony>

(Opening Remarks)

Sin OHKOUCHI (Director, Tsukuba Institute, RIKEN)

Kazuo MORIWAKI (Special Consultant, RIKEN)

Shigeru KURE (Adjustment Officer, Life Science Division, Research Promotion Bureau, MEXT)

Yoshimi BENNO (Head, Microbe Division, BRC)

(Memorial Symposium) "Role required to RIKEN BRC-JCM and it's future"

Microorganisms as bioresource

Yuichi OBATA (Director, BRC)

Prospective for RIKEN BRC-JCM in terms of Convention on Biological Diversity

Seizo SUMIDA (Director, Japan Bioindustry Association)

Creation of microbiological resources circumstances by BRC

Kenichiro SUZUKI (Director, NITE Biological Resource Center, National Institute of Technology and Evaluation)

New-born JCM: Role required as a core microbiological resource center in the field of environment and health in Japan

Makoto WATANABE (Director, Environmental Biology Division, National Institute for Environmental Studies)

Hope for RIKEN BRC-JCM from the aspect of South East Asian countries holding tropical microbiological resources.

Takashi NAKASE (Consultant, National Institute of Technology and Evaluation)



## 2003 ~ 2005

<Memorial International Symposium> “Current status, strategy and future prospects of microbial resources in biological resource centers”

BRCs in the twenty first century: a 100-years history at CBS

Pedro W. Crous (Director CBS, The Netherlands)

Toward establishing the unique filamentous fungus collection at RIKEN BRC-JCM

Gen OKADA (Senior Research Scientist, BRC-JCM)

The collection of archaea and extremophiles in the DSMZ

Stefan Spring (Research Scientist, DSMZ, Germany)

Approach to new bioresources: Thermophilic archaea

Takashi ITOH (Senior Research Scientist, BRC-JCM)

From culture collection to BRC: Recent changes in procedures and perspective

Masako TAKASHIMA (Senior Research Scientist, BRC-JCM)

Quest for novel yeast resources from plants, terrestrial soils and the related invertebrates

Motofumi SUZUKI (Senior Research Scientist, BRC-JCM)

Aerobic actinomycete collection: Features and aims

Takuji KUDO (Senior Research Scientist, BRC-JCM)

Gram negative bacterial collection including bacteria classified in BSL2

Yoshimasa KOSAKO (Senior Research Scientist, BRC-JCM)

BRC-JCM is the base of resources of lactic acid bacteria and anaerobes

Yoshimi BENNO (Head, BRC-JCM)

(Closing Remarks)

Yuichi OBATA (Director, BRC)



4-2. Training Courses

Starting in 2004, the RIKEN BRC has been giving training courses of advanced technologies for the best use of bioresources. Researchers, technicians and students from universities, research institutes and private sectors have joined the program.

**Cryopreservation of mouse embryos and sperms**

- October 18-21, 2004: 4 trainees
- January 24-27, 2005: 3 trainees
- October 11-14, 2005 : 3 trainees



**Culturing method for plant cell lines**

- October 4-6, 2004:5 trainees
- Novemver 8-10, 2004: 5 trainees
- January 31- February 2, 2005: 5 trainees
- November 7-9, 2005 : 8 trainees

**Recombinant adenoviral vector**

- August 24-26, 2005 : 3 trainees



**Culture and preservation method for anaerobic microbes**

- August 29-30, 2005 : 4 trainees

**Terminal RFLP method for analysis of intestinal bacteria**

- December 13-15, 2005 : 10 trainees

