Preface

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The 23rd Annual and International Meeting of the Japanese Association for Animal Cell Technology (JAAC) “Animal Cell Technology from Asia to World” was held at Hokkaido University, Sapporo, Japan from September 1 to 4, 2010. The meeting chairperson was Prof. Mutsumi Takagi, Hokkaido University. The meeting focused on recent advancements in the field of animal cell technology from both basic and applied aspects. We invited academic and industrial scientists from all over the world to make this meeting truly successful and scientifically fruitful. More than 250 participants from 16 countries joined the meeting and gave presentations (plenary & keynote lectures, 3; Murakami memorial lecture, 1; presentations by symposium participants, 36; Luncheon and technical seminars, 6; oral presentations, 35; poster presentations, 100; Trade exhibition, 22).

The titles of plenary lectures were as follows: Plenary Lecture 1. “Glycoblotting method reveals new promising biomarkers during cell differentiation” by Dr. Shin-Ichiro Nishimura, Hokkaido University. Plenary Lecture 2. “ESACT Lecture” by Dr. Dana C. Andersen,

Generntech. Plenary Lecture 3. “Stem cell research in the last 10 years” by Dr. Shinichi Nishikawa, Riken.

Fields and titles of 8 symposia were 1. “Water and Life”, 2. “Animal Cell Technology in Asian Countries”, 3. “Advanced Technology in Cell Engineering”, 4. “ESACT Symposium”, 5. “Novel Culture Supplement for Mammalian Cell Culture”, 6. “Advanced Technologies in Cell Culture Process Development”, 7. “Serum-free Culture of Human Stem Cells”, 8. “Noninvasive Estimation of Cell Quality for Transplantation”.

All presentations (oral and poster) were brought together on the following topics.

1. Cell culture engineering
2. Production of biologicals
3. Functional cell lines
4. Glycoengineering
5. Immunologicals, monoclonal antibodies, and vaccines
6. Transplantation, artificial organs, and organ substitutes
7. Gene therapy
8. Transgenic animals
9. Safety and regulation
10. Cell regulatory factors and signal transduction
11. Functional substances in food and natural sources
12. Animal cells for in vitro assay
13. Other topics concerning animal cell technology

The editors express their sincere thanks to all the participants, symposium organizers, chairmen, speakers,

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members of the organizing committee, and the student staff of this meeting for their valuable contributions.

This JAACT2010 issue of Cytotechnology includes 14 papers accepted after peer review. The editors hope this JAACT issue of Cytotechnology will greatly contribute to the development of animal cell technology for innovation of life science.

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