Preface

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The 21st Annual and International Meeting of the Japanese Association for Animal Cell Technology (JAACT) “POWER OF CELLS” was held at the Fukuoka International Congress Center in Fukuoka, Japan from November 24 to 27, 2008. 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 340 participants from 14 countries joined the meeting and gave presentations (plenary and keynote lectures, 3; Murakami memorial lecture, 1; presentations by symposists, 37; technical seminars, 6; oral presentations, 30; poster presentations, 126). Fields and titles of 9 symposia were (1) “From Molecules and Genes to

Therapies: Industrial ACT Perspectives”, (2) “Stem Cells: Culture Technology to Clinical Application–Yasuo Kitagawa Memorial Symposium”, (3) “Innovation for Tissue Engineering of Metabolic Organs”, (4) “Cell Engineering–from Omics to Cell Culture Processes”, (5) “Water and Life”, (6) “Nutrigenomics: Lipid Metabolism and Cancer Prevention”, (7) “Recent Progress in Cell Culture Process Development”, (8) “Novel Production System for Biologics”, (9) “Challenges on Down Stream Process Development for Biologics”. 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

The editors express their sincere thanks to all the participants, symposium organizers, chairpersons, speakers, members of the organizing committee,

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This JAACT2008 issue of Cytotechnology includes 11 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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