Animal Cell Technology: Basic & Applied Aspects

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Animal cell technology is a growing discipline of cell biology which aims not only to understand structures, functions and behaviors of differentiated animal cells but also to uncover their abilities to be used in industrial and medical purposes. The goal of animal cell technology includes accomplishment of clonal expansion of differentiated cells with useful ability, optimization of their culturing conditions at the industrial scale, modulation of their ability for efficient production of medically and pharmaceutically important proteins, and application of animal cells to gene therapy and formation of artificial organs. This Volume gives the readers a complete review of present state-of-the-art in Japan, a country where this field is well advanced, as well as in Asia, Europe and the United States. The Proceedings will be useful for the cell biologists, biochemists, molecular biologists, biochemical engineers and other disciplines related to animal cell culture, working in the academic environments as well as in industries of biotechnology and pharmacy.

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