# **Tile of ISIMS2008**

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# SUMMARY:

In the present research, we applied cell sheet engineering technique for effective production of tumor-carrying animal models. Large lung carcinoma cell monolayers cultured on ....

# **INTRODUCTION:**

Production of tumor-carrying animal models is important subject for development of potential anti-cancer drugs. However, such animal models are produced by subcutaneous injection of tumor cell suspensions, which often needs substantial amounts of animals because production rate of tumor-carrying animals and tumor sizes are varied largely. Thus more efficient, and stable production of tumor-c ....

#### **EXPERIMENTALS**:

Large lung carcinoma cell lines, NCI-H460 or A-549 were cultured to the confluency on PIPAAm-grafted dishes at  $37^{\circ}$ C in 5% CO<sub>2</sub>. These cells were then recovered by low temperature incubation at  $20^{\circ}$ C using fibrin gel supporter membrane. A piece of cell ....

### **RESULTS AND DISCUSSION:**

Growth of HCI-H460 cells on PIPAAm-grafted dishes was almost identical with that on conventional tissue culture grade polystyrene dishes. Similar trend was also .....

#### CONCLUSIONS:

In the present research, tumor cell sheet was prepared on thermoresponsive PIPAAm-grafted culture dishes. These ....

### **REFERENCES**:

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Figure 1. View of University of Tsukuba along with Mt. Tsukuba