

CRYOBIOLOGY AND CRYOTECHNOLOGY

Contents of Vol. 42 (No. 2), 1996

Original papers

1. Methods for Cryopreservation of Some Species of the Food Microalgae (NRIA Culture Collection)
.....Kunio HIKICHI, Eiichi TERAUCHI, Masanori OKAUCHI
and Naotsune SAGA.....85(1)
2. Influence of High Pressure Treatment on the Properties of Tuna Meat during Subsequent Refrigerated Storage
..... Kiyonari KAKUDA and Yumiko MATSUDA.....93(9)
3. Isolation and Characterization of Highly Antifreeze Active Peptides in Enzymic Digest of Hemoglobin
..... Masata MITSUIKI, Akinori MIZUNO and Masao MOTOKI.....102(18)

Papers presented at the 42nd Annual Meeting, June 10, 1996, Tokyo

Special paper

1. Quantitative Measurement of Cell Membrane Transport: Theory, Technology and Applications
.....John J. MACGRATH.....108(24)

Reports

1. A Microorganism from Antarctica Has Abnormal Diversity of Morphological Expression
..... Jiro NISHIKAWA.....120(36)
2. Freezing Injury of Cultured Rice Cell Analyzed by Dielectric Measurements
.....Eisuke ISHIKAWA, Seoung-kwon BAE, Osato MIYAWAKI,
Kozo NAKAMURA, Yasuhiko SHIINOKI and Kensuke ITO.....127(43)
3. Cryopreservation of Cultured Plant Cells and Tissues at Super-Low Temperature II. Re-examination of Cryoprotectants.
..... Yasutake SUGAWARA, Ken-ichiro ITO and Akira KURIYAMA.....131(47)
4. Raman and DTA Studies of Glassy Aqueous Phenyltrialkylammonium Salt Solutions
..... Akihiro OHNISHI and Hitoshi KANNO.....135(51)
5. Thermal Analysis of Frozen Polymer Gels
and Observation of Their Frozen State by Scanning Electron Microscopy
.....Norio MURASE, Tomohiro INOUE, Tetsuya TAKANO,
Toru SUZUKI and Rikuo TAKAI139(55)
6. Proposal for Designing Protocol of Pre-freezing Process
..... Ryo SHIRAKASHI and Ichiro TANASAWA.....143(59)
7. Thermal Behavior of the Cryoprotective Solutions for Red Blood Cells
.....Tetsuo IJIMA and Shinji YUASA.....146(62)

General Discussions