

The Sensitivity Test for Human Urinary Tract Malignancies Making of use of the Chick Embryo Method using Chorioallantoic Membrane

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Research Project

Project/Area Number

01570882

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Grant-in-Aid for General Scientific Research (C)

Allocation Type

Single-year Grants

Research Field

Urology

Research Institution

Kanazawa university

Principal Investigator

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Sensitivity test / Urinary tract malignancies / Chick embryo method / MTT method / Molecular biology

Research Abstract

In sensitivity tests of chemotherapy alone, hyperthermia alone, or a combination of the two against human urinary tract malignancies making use of the chick embryo method using chorioallantoic membrane, measurement of the weight of the tumor mass was considered to be an effective method of evaluating the antitumor effect. However, in cases in which a large part of the tumor is necrotic, this evaluation method did not provide reliable results. At present, using the the MTT method, more accurate quantitative results have been obtained. As a sensitivity test for metastatic tumors using continuously cultured cell lines, DNA is extracted from the metastatic organs of a fertilized chick embryo, specific DNA amplification and immuno-electro-phoresis are performed, and the DNA content is measured. By this method, it was shown that is possible to quantitatively evaluate the anti-tumor effect of various treatment methods.

Research Products (14 results)

All Other

All Publications (14 results)

- [Publications] 打林 忠雄,他: "鶏卵法による温熱と抗癌剤併用効果の検討" 日本泌尿器科学会雑誌. 80. 17-21 (1989) ▼
- [Publications] 西野 昭夫,他: "進行性泌尿器悪性腫瘍の局所温熱療法におけるリンパ球サブセットの検討" 日本ハイパ-サ-ミア誌. 5. 27-36 (1989) ▼
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- [Publications] 李 秀雄,他: "電気分解式水素クリアランス法による腎腫瘍および周囲正常組織局所血流量の検討" 日本ハイパ-サ-ミア誌. 5. 375-379 (1989) ▼
- [Publications] T.Uchibayashi,et al.: "Responses of tumor cell lines implanted onto the chorioallantoic membrane of chick embryo to anticancer agents in combination with hyperthermia" Urol.Res.(1991) ▼
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- [Publications] K. Nakajima et al.: "A combined treatment of 8MHz radio-frequency hyperthermia, THP-adriamycin, CDDP or irradiation for invasive bladder carcinoma" Jpn. J. Hyperthermic oncol.5. 181-185 (1989) ▼
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- [Publications] T. Amano et al.: "A combined therapy of hyperthermia and tumor necrosis factor for nude mice bearing KK-47 bladder cancer" J. Urol.144. 370-374 (1990) ▼
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