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- 1960 Morphological Differentiation of Human Choriocarcinoma Cells Induced by Methotrexate. Susan J. Friedman and Philip Skehan.
- \*1968 Gluconeogenesis from Alanine in Patients with Progressive Malignant Disease. Christine Waterhouse, Nicolas Jeanpretre, and Julian Keilson.
- \*1973 Relationship between the Progesterone, Androgen, and Glucocorticoid Receptor and Response Rate to Endocrine Therapy in Metastatic Breast Cancer. Joseph C. Allegra, Marc E. Lippman, E. Brad Thompson, Richard Simon, Audrey Barlock, Linda Green, Karen K. Huff, Hoan My T. Do, Susan C. Aitken, and Robert Warren.
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- 2001 Transfer of Tumor Cells between Cell Aggregates as a Model for Adhesive Changes in Metastasis. Jay N. Umbreit and Richard W. Erbe.
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- 2016 Immunobiological Characterizations of Tumor-associated Fetal Antigens. D. L. Evans, M. K. Frank, K. P. McKinnon, and M. Cerrone.
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#### Letters to the Editor

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*Cancer Res* 1979;39:1863-2228.

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