NEW CONCEPTS IN CANCER

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NEW CONCEPTS IN CANCER

Metastasis, Oncogenes and Growth Factors

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Preface

Metastasis of tumor cells remains a major clinical problem and an obstacle to curative therapy. In recent years, investigations have been carried out to delineate factors associated with the metastatic process, in the hope of delineating important determinants or sites for therapeutic interference. Other approaches have focused on the identification of qualitative and quantitative differences that may exist between the primary and metastatic tumor tissues. Although differences in the biochemical and molecular properties of some metastatic cells have been reported, the clinical relevance of these findings remains relatively unproven.

The aims of the symposium were threefold: (1) to define and review the clinical status of metastatic disease and the present status of response to radiation and chemotherapy; (2) to identify factors associated with and/or responsible for tumor metastasis; (3) to evaluate the role of various growth factors in metastasis and therapy.

The overall plan of the symposium was to discuss the principles and functions associated with tumor cell metastasis in model systems and to illustrate their relevance to the clinical situation. In recent years, considerable data have been accumulated on clinical materials concerning, for example, the association of certain oncogenes with specific tumor types. Early results suggest a possible relationship between the over-expression of oncogenes and clinical resistance to chemotherapy. Once these observations are confirmed, the task in the future will be to design target-site-specific drugs and to evaluate their therapeutic potential. These and other therapeutic strategies were discussed during the two-day symposium.

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