CANCER MANAGEMENT IN MAN

*Detection, Diagnosis, Surgery, Radiology,
Chronobiology, Endocrine Therapy*

Cancer Growth and Progression

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*Detection, Diagnosis, Surgery, Radiology,
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INTRODUCTION

Previous volumes in this series have discussed the current state of our knowledge concerning the pathophysiology of cancer growth and progression. The complexity of the interaction of malignant neoplasms and the host, the heterogeneity of malignant cell subpopulations, and the existence of metastatic tumor cells resistant to drug therapies remain as significant clinical challenges to clinical oncologists. Indeed, conventional treatment regimens of chemotherapy, surgery and radiology are often ineffective for the therapy of a large variety of established metastatic cancer in patients. When one considers the insidiousness of progressive neoplastic growth and the emergence of continuously more aggressive and malignant cellular subpopulations one is overwhelmed with the challenges inherent in attempting to control malignant neoplasms. Nevertheless, as summarized in the earlier volumes of this series, substantial knowledge and insights have recently been obtained pertaining to the molecular and biochemical mechanisms involved in tumor progression and growth as well as in host antimalignant responses. While there is clearly an urgent need for improvements in cancer management in man, major advances in our understanding of cancer growth and

progression have identified a variety of targets and strategies to allow these goals to be realized. This volume critically reviews approaches towards cancer management in man at the levels of: detection, diagnosis, surgery, radiology, chronobiology and endocrine treatment.

Several chapters review selected methods of cancer diagnosis. In addition, a variety of on-going and novel approaches for cancer treatment are also presented in this volume. Progress in the early detection of malignant neoplasms, coupled with novel approaches for the therapy of such neoplasms, may ultimately yield safe and well-tolerated agents for the selective therapy of solid malignancies. New therapeutic approaches, directed towards the biochemical and molecular targets identified in the earlier volumes of this series, may ultimately lead to the generation of new modalities which will yield a high margin of safety and be significant advances over currently available therapeutic measures.

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