Recent progress in basic and clinical radiotherapy

Advances in Radiation Therapy

Editors: M. Guckenberger
S.E. Combs
D. Zips

Developments in radiation oncology have been key to the tremendous progress made in the field in recent years. The combination of optimal systemic treatment and local therapy has resulted in continuing improved outcomes of cancer therapy. This progress forms the basis for current pre-clinical and clinical research which will strengthen the position of radiation oncology as an essential component of oncological care.

This book summarizes recent advances in radiotherapy research and clinical patient care. Topics include radiobiology, radiotherapy technology, and particle therapy. Chapters cover a summary and analysis of recent developments in the search for biomarkers for precision radiotherapy, novel imaging possibilities and treatment planning, and advances in understanding the differences between photon and particle radiotherapy.

Advances in Radiation Therapy is an invaluable source of information for scientists and clinicians working in the field of radiation oncology. It is also a relevant resource for those interested in the broad topic of radiotherapy in general.

Contents

Preface: Guckenberger, M.; Combs, S.E.; Zips, D.

Principles and Developments in Cancer Immunotherapy and Approaches for Combination with Tumour Irradiation: Eckert, F.; Huber, S.

Imageable Biomarkers for Radiotherapy Response: Woliner-van der Weg, W.; Span, P.N.; Braam, P.M.; Bussink, J.

Targeting Tumor Microenvironment and Metabolism to Overcome Radiation Resistance: Sharma, A.; Pruschy, M.

Imaging for Target Volume Definition and Response Assessment in Lung Cancer: De Ruyscher, D.; van Elmpt, W.

Advances in Technology and Its Application: Radiotherapy Treatment Planning: Alber, M.

Stereotactic Body Radiotherapy: Guckenberger, M.

Clinical Rationale and Indications for Particle Therapy: Dreher, C.; Combs, S.E.

Advances in Radiation Biology of Particle Irradiation: Helm, A.; Tinganelli, W.; Durante, M.

Preclinical Mouse Models for the Evaluation of Novel Techniques in Particle Therapy: Schmid, T.E.; Multhoff, G.

Author Index/Subject Index
Dear Librarian,

I have reviewed Advances in Radiation Therapy and would like to recommend it for your library.

Recommended by:

Department:

Date:

Signature:

For details and further representatives and agencies see www.karger.com/contact