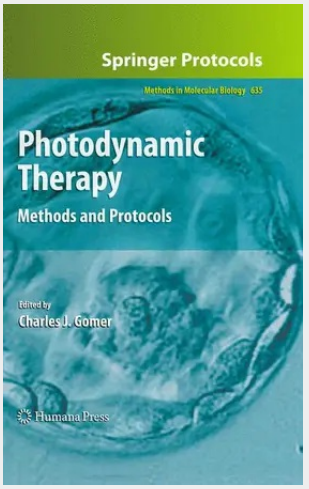
Gomer

Photodynamic Therapy



Biological interactions of visible light with photosensitizers have been studied for over a century while controlled clinical applications of light and photosensitizers to treat solid tumors, known as photodynamic therapy, have been evolving since the mid 1970's. In , leading PDT scientists and clinicians provide the first comprehensive collection of methods and protocols specifically related to relevant mechanistic, dosimetric, preclinical, and clinical procedures used in current PDT research. Reflecting the growing number of studies demonstrating that immunological, tumor microenvironmental, and vascular responses are all contributing to PDT treatment outcomes, the contents of this volume move beyond the more traditional PDT concepts in order to investigate the numerous signal transduction and cell death pathways involved. Written in the highly successful ™ series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and notes which highlight tips on troubleshooting and avoiding known pitfalls.

Authoritative and cutting-edge, is an ideal guide for new investigators just starting out in PDT research as well as seasoned investigators changing the direction of their research with the intention of exploring this vital field of study.

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