

1. Record Nr.	UNINA9910674386103321
Autore	Mordon Serge
Titolo	Photodynamic Therapy 2021 // Serge Mordon
Pubbl/distr/stampa	Basel, Switzerland : , : MDPI - Multidisciplinary Digital Publishing Institute, , 2022
Descrizione fisica	1 online resource (238 pages)
Disciplina	616.9940631
Soggetti	Cancer - Photochemotherapy Oncology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>Photodynamic therapy (PDT) is a light-based photochemistry process. The illumination of a photoactivatable molecule (also called photosensitizer) with visible or near infrared light produces reactive oxygen toxic species to destroy tumor cells. This treatment modality leads to highly targeted actions, because reactive oxygen species are produced only where light is applied. Light is not harmful, nor is the photoactivatable molecule. Only the combination of three elements (photosensitizer, oxygen, and light) is required to induce photo-oxidation reactions. PDT has proven to be a promising modality in many medical applications including cutaneous condition, infectious diseases, and various cancers at different stages. This book is a reprint of the Special Issue "Photodynamic Therapy 2021" that was published in Pharmaceuticals.</p>