



Handbook of Photodynamic Therapy: Updates on Recent Applications of Porphyrin-Based Compounds

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The main objective of this book is to present the recent applications of photodynamic therapy (PDT) in treating cancer and other diseases. The limitations associated with current PDT agents, and the synthetic designs that have been used in various laboratories are also discussed. The utility of certain tumor-avid agent for cancer imaging (fluorescence, PET, MRI) is also summarized. The book also includes the use of delivery vehicles, including nanoparticles in improving the tumor-specificity of the desired agents. The book is basically focused on the translational approach of drug development. By providing certain specific examples, a clear concept of moving a 'product' from the bench to bed-side is also discussed. To have a clear concept of drug development the book is divided in three parts — Medicinal Chemistry, Mechanistic and Clinical studies. Each part includes the contributions from the leading scientists with extensive experience in the respective field. The handbook is assembled by renowned scientists Dr Dougherty, known as the father of PDT, Dr Kessel, well known for his contributions on mechanism of PDT and Dr Pandey for his inventions in developing improved agents for PDT and cancer-imaging.

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Editorial Review

From the Inside Flap

The book, written for a general educated public, compares the most important elements of the human nervous system to the corresponding capacities of robots. Crucial are the areas of activities for which the constraints limiting human and robot performances are much different. Those areas offer opportunities for synergies. The book argues that we now understand mechanisms for emotional feelings in the human brain so well that we will be able to program robots to act as though they also have emotion. Written in a clear and open fashion by an expert neuroscientist, the book will appeal to interested lay readers in addition to neuroscientists and computer scientists.

Users Review

From reader reviews:

Scott Anderson:

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