



Towards Dual and Targeted Cancer Therapy with Novel Phthalocyanine-based Photosensitizers (Springer Theses)

Janet T F Lau

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Janet Lau's thesis describes her studies into the use of phthalocyanine-based photosensitizers in combined chemo- and photodynamic therapy (PDT) and targeted PDT. In order to carry out this study, Lau uses several approaches: conjugation with a chemotherapeutic oxaliplatin derivative, use of a polyamine ligand 2 with a view to targeting the polyamine transporters over-expressed in tumor cells, and employment of a quencher that can inhibit their photodynamic activity but can still be removed under a tumor-associated environment such as low pH and high thiol concentration. This thesis reports dual activatable photosensitizers for the first time. Overall the studies included are original and the effects have been well demonstrated at the cellular level. The work in this thesis is of much current interest and importance, and can pave foundation for further developments. Accordingly, part of the results has been published in prestigious scientific journals.

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