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(54) Title: METHOD FOR IMPROVED SELECTIVITY IN PHOTO-ACTIVATION OF MOLECULAR AGENTS

(57) Abstract

A method for the treatment of a particular volume of plant or animal tissue comprising the steps of treating the plant or animal tissue with at least one photo-active molecular agent, wherein the particular volume of the plant or animal tissue retains at least a portion of the at least one photo-active molecular agent, and then treating the particular volume of the plant or animal tissue with light sufficient to promote a simultaneous two-photon excitation of at least one of the at least one photo-active molecular agent retained in the particular volume of the plant or animal tissue, wherein the at least one photo-active molecular agent becomes active in the particular volume of the plant or animal tissue. There is also disclosed a method for the treatment of cancer in plant or animal tissue and a method for producing at least one photo-activated molecular agent in a particular volume of a material.