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(54) Title: APPARATUS AND METHODS FOR IMAGING AND MODIFICATION OF BIOLOGICAL SAMPLES

(57) Abstract: This invention relates to enrichment of a biological sample comprising a plurality of cells to assist further analysis thereof. It provides a technique comprising the steps of: (a) providing a sample comprising a plurality of cells which include a photosensitive compound that can be induced by light irradiation to inactivate or kill at least part of the respective cell; (b) acquiring an image of at least a portion of the sample; (c) identifying cells of interest in the sample image; (d) selecting cells other than the cells identified in step (c); and (e) irradiating only those cells selected in step (d) with a light beam so as induce the photosensitive compound therein to inactivate or kill at least part of those cells, and thereby enrich the sample with respect to the cells of interest for further analysis.



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