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(71) Applicants: NATIONAL UNIVERSITY OF SINGAPORE [SG/SG]; 21 Lower Kent Ridge Road, Singapore 119077 (SG). THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY [CN/CN]; Clear Water Bay, Kowloon, Hong Kong (CN).

(72) Inventors: LIU, Bin; c/o National University of Singapore, Faculty of Engineering, Department of Chemical and Biomolecular Engineering, 21 Lower Kent Ridge Road, Singapore 119077 (SG). SHAO, Jinjun; c/o National University of Singapore, Faculty of Engineering, Department of Chemical and Biomolecular Engineering, 21 Lower Kent Ridge Road, Singapore 119077 (SG). YUAN, Youyong; c/o National University of Singapore, Faculty of Engineering, Department of Chemical and Biomolecular Engineering, 21 Lower Kent Ridge Road, Singapore 119077 (SG). LIANG, Jing; c/o National University of Singapore, Faculty of Engineering, Department of Chemical and Biomolecular Engineering, 21 Lower Kent Ridge Road, Singapore 119077 (SG). TANG, Benzong; c/o The Hong Kong University of Science and Technology, Department of Chemistry, Clear Water Bay, Kowloon, Hong Kong (CN). SONG, Zhegang; c/o The Hong Kong University of Science and Technology, Department of Chemistry, Clear Water Bay, Kowloon, Hong Kong (CN). CHEN, Yilong; c/o

The Hong Kong University of Science and Technology, Department of Chemistry, Clear Water Bay, Kowloon, Hong Kong (CN). KWOK, Tsz Kin; c/o The Hong Kong University of Science and Technology, Department of Chemistry, Clear Water Bay, Kowloon, Hong Kong (CN).

(74) Agent: AMICA LAW LLC; 30 Raffles Place, #14-01 Chevron House, Singapore 048622 (SG).

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(54) Title: LIGHT-UP PROBES BASED ON FLUOROGENS WITH AGGREGATION INDUCED EMISSION CHARACTERISTICS FOR CELLULAR IMAGING AND DRUG SCREENING

(57) Abstract: The present invention is drawn toward luminogens and chemical compositions comprising a target recognition motif, a hydrophilic moiety, a linking moiety, and at least one luminogen. Additionally presented are methods of: assessing the conversion of a prodrug into its active form, assessing the therapeutic efficacy of a prodrug, detecting glutathione in a biological sample, detecting alkaline phosphatase in a sample, and conducting fluorescence imaging or magnetic resonance imaging with the use of luminogen-containing compositions.

