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(71) Applicants (for all designated States except US): **BI-OTIUM, INC.** [US/US]; 3423 Investment Boulevard, Suite 8, Hayward, California 94545 (US). **ALLELOGIC BIOSCIENCES CORP** [US/US]; 3423 Investment Blvd., Suite 9, Hayward, California 94545 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MAO, Fei** [US/US]; 34379 Benedick Lane, Fremont, California 94555 (US). **LEUNG, Wai-Yee** [US/US]; 3083 Sandy Way, San Ramon, California 94583 (US). **XIN, Xing** [US/US]; 134 E. Court Lane, Foster City, California 94404 (US).

(74) Agent: **DE RUNTZ, Alison, K.**; Parsons, Hsue & de Runtz LLP, 595 Market Street, Suite 1900, San Francisco, California 94105 (US).

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(54) Title: DIMERIC AND TRIMERIC NUCLEIC ACID DYES, AND ASSOCIATED SYSTEMS AND METHODS

(57) Abstract: Dimeric and trimeric nucleic acid dyes, and associated systems and methods are provided. Such a dye may form a hairpin-like structure that enables it to stain nucleic acids via a release-on-demand mechanism, for example. Such a dye may have low background fluorescence in the absence of nucleic acids and high fluorescence in the presence of nucleic acids, upon binding therewith, for example. A dye provided herein may be useful in a variety of applications, such as in DNA quantitation in real-time PCR, for example.



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