ACTIVATION OF BIOLUMINESCENCE BY STRUCTURAL COMPLEMENTATION

Abstract

Provided herein are compositions and methods for the assembly of a bioluminescent complex from two or more non-luminescent (e.g., substantially non-luminescent) peptide and/or polypeptide units. In particular, bioluminescent activity is conferred upon a non-luminescent polypeptide via structural complementation with another, complementary non-luminescent peptide. Biological processes rely on covalent and non-covalent interactions between molecules, macromolecules and molecular complexes. In order to understand such processes, and to develop techniques and compounds to manipulate them for research, clinical and other practical applications, it is necessary to have tools available to detect and monitor these interactions.

(No suitable figure)