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(54) Title: CHIMERIC GFP-AEQUORIN AS BIOLUMINESCENT CA^{++} REPORTERS AT THE SINGLE CELL LEVEL

(57) Abstract: A modified bioluminescent system comprising a fluorescent molecule covalently linked with a photoprotein, wherein said link between the two proteins has the function to stabilize the modified bioluminescent system and allowing the transfer of the energy by Chemiluminescence Resonance Energy Transfer (CRET).