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(54) Title: LUMINESCENT STEM CELLS AND USES THEREOF

(57) Abstract: It is described a stable recombinant stem cell able to express an apophotoprotein and produce a bioluminescent signal in the presence of a suitable chromophore as substrate in response to intracellular calcium concentration variation; methods for identifying agents modulating the differentiation of stem cells towards a specific cell lineage; methods for identifying a ligand able to stimulate a specific cell lineage target; methods for identifying an antagonist to ligand known to stimulate a specific cell lineage target; uses of stable recombinant stem cells for in vitro testing of toxicity and/ teratology of a substance.

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