The Xenogen IVIS Imaging System is a high sensitivity, \textit{in vivo} imaging system that allows non-invasive visualization and tracking of cellular and genetic activity within a living organism, in real time. Specific genes, cells, or organisms are tagged with a gene encoding one of the luciferase enzymes. When the tagged entity is active, it glows. The emitted light corresponds to the number and location of tagged entities. This allows measurements of the spread of disease, e.g. tumors, or the effects of a drug throughout the system, non-invasively. IVIS is capable of storing these low light images, and displaying them for subsequent analysis. Additionally IVIS incorporates fluorescent imaging capabilities for both in vitro and in vivo applications.

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