

Photonic Science

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ISIS4 CAMERA

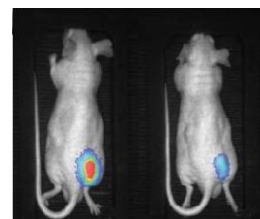
Luminescence / Small Animal Imaging

Luminescence emissions from reporter genes provide a quantitative model for the study of development of human diseases.

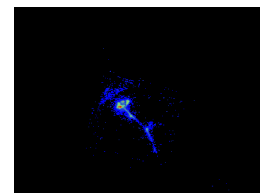
As the amount of light collected using this method is very faint, an ultra sensitive camera is required to record live luminescence emissions propagating through soft tissues.

Cameras with near single photon counting sensitivity are used for this type of experiment. They provide a live image of very low photonic emissions, typically down to few hundred photons per second per steradian and cm². These measurements are usually combined with fluorescence as well as X-ray CT scans in order to provide an accurate 3D model of tumor / location propagation.

Quantification of luminescence emission to derive gene reporter activity is also used with transgenic plants. Monitoring live luminescence on Arabidopsis samples according to varying physiological conditions is possible using a real time recording intensified digital camera system.



Small Animal Imaging



Arabidopsis