Fred Hutch
Cancer Center

Cellular Imaging

Research Administration
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Fred Hutch's Shared Resources are catalysts for lifesaving discoveries. This uniquely centralized program of 15 specialized core facilities and scientific services drives advances by integrating dedicated experts and cutting-edge technologies across the entire research pipeline, from basic science to clinical trial.

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Cellular Imaging Core
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Typhoon Trio imager

Multimode scientific scanner for fluorescence, chemiluminescence and radioactivity (phorphorimager) detection

Location and use

- Thomas Building, DE-341
- Used on a first-come, first-serve basis. Please book if you will need the instrument for more than 30 minutes so other users know its availability.

Excitation sources

- Lasers: 488, 532, 640 nm

Capabilities

- Scientific scanner for phosphorimager (radioactivity)
- Fluorescence
- Chemiluminescence

Recommended uses

- Imaging and quantitation of radioactivity, fluorescence and chemiluminescence
- Gel and blot imaging
- Alternative to fluorescence plate reader
- DNA gels (Southern blots)
- Western blots

General information

The Typhoon Trio is a versatile instrument for the imaging of radioactive samples using Phosphor screen technology, as well as fluorescence imaging of green, red and far red dyes. Imaging of chemiluminescent samples is also possible. The instrument can scan gels, blots, multi-well plates and various other sample formats at resolutions down to 25 microns. Images can be analyzed and quantitated with ImageQuant TL or with the public-domain ImageJ software package. A multi-user ImageQuant TL license is available for off-line data analysis. The instrument includes 488, 532 and 640 nm lasers for fluorescence imaging. Phosphor screens and cassettes for the imaging of radioactive samples are available. Special screens for Tritium imaging available upon request.

Gel and blot scanners

Scanners are used on a first-come, first-serve basis. Please book if you will need the instrument for more than 30 minutes so that other users know its availability. If you want Cellular Imaging staff to scan your gel, please submit a request.