Fred Hutch
Cancer Center

Cellular Imaging

Research Administration
Seattle, WA • 501(c)(3) Nonprofit

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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IncuCyte ZOOM and S3

Widefield imaging inside an incubator

Excitation sources

- LEDs

Objectives

- 4x/0.2, 10x/0.3, 20x/0.45

Cameras

- Basler sCA1400-30gm — CCD (Zoom model)
- Basler Ace 1920-155um — CMOS (S3 models)

Capabilities

- Phase contrast, green and red fluorescence
- Time lapse of live cell culture and spheroids

Recommended uses

- Monitoring cell proliferation
- Monitoring reporter gene expression
- High content assay development
- Scratch assay
- Migration assay
- Apoptosis

General information

IncyCyte is an incubator microscope system for live cell imaging. The system includes a microscope with enhanced phase contrast and two-color (green/red) fluorescence channels that resides inside a standard cell culture incubator, a microscope controller, a 30 TB data server and Incucyte image analysis software. The system allows time-lapse, live cell imaging of cells in a variety of vessels, including 30 mm dishes, tissue culture plates, cell culture flasks and multi-well chambers. Images can be reviewed and analyzed from a networked remote computer without opening the incubator or disturbing the cells. The system is especially suitable for monitoring cell lines, cell growth and transgene expression, and for assay development. The analysis software suite includes validated assays for cell migration, apoptosis, cell proliferation, angiogenesis, reporter gene expression and more.

FILTER	EXCITATION	EMISSION
Green	460/40	524/40
Red	585/40	625/705 (635 peak)