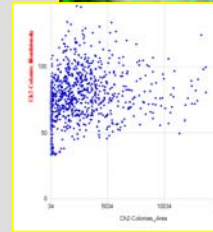
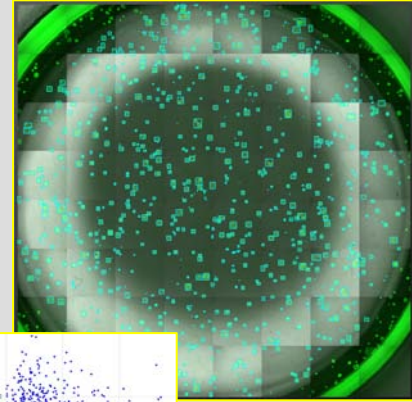


SVCell 2.0

SVCell 2.0 is a revolutionary solution platform for broad, high content, live cell image analysis. Traditional image analysis technologies that rely on simple thresholding on high signal to noise fluorescence staining are inadequate for live cell phenotypes. Powered by recipes, SVCell delivers unsurpassed capability and performance for a wide range applications. SVCell is used in leading laboratories worldwide for the most challenging applications in detection, tracking and phenotype classification including human iPS cell classification without the use of fluorescent markers, challenging subcellular object tracking and many more.



SVCell analyzes large composite image of mouse iPS colonies in 100 mm dish. Colonies are detected in the phase contrast channel, area and OCT4::GFP intensity are reported

UNPRECEDENTED RANGE OF APPLICATIONS

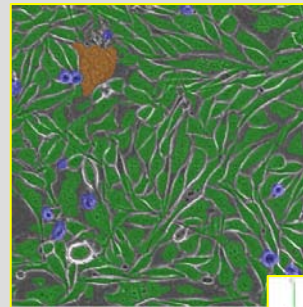
SVCell provides “off-the-shelf” universal application analytics, called standard recipes, and also innovative wizards for the creation or update of modular recipes. Custom recipes can also be created for you by DRVision.

- **EXTREMELY POWERFUL** solution platform powered by recipes to address an unprecedented range of applications

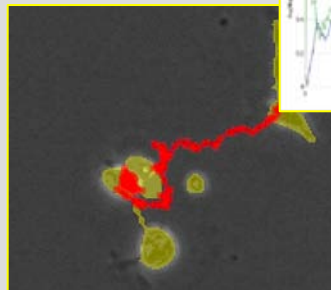
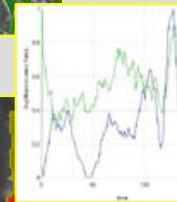
- **UNIQUE TECHNOLOGY** enables the accurate and robust analysis of phase, brightfield as well as challenging subcellular fluorescence images and phenotypes

- **EASY IMPLEMENTATION**

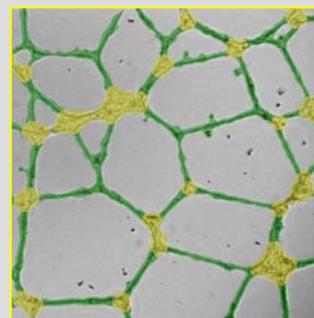
- **One-click** recipe execution fully automates the analysis of phenotypes and events in microscopy images and movies
- **Soft Learning™** technologies and teachable, wizard-based interfaces make it possible for non-experts to quickly create scalable and novel image analytics



Individual cell detection and classification in phase contrast movie Mitotic (blue) and multi-nucleated cells (orange) are distinguished from other cells (green) and counted over time
Sample: Phase contrast image of PC3-3 cells in culture
Images courtesy of: Div. Biophysics / Cryotechnology, Fraunhofer IBMT



Cell tracking in phase contrast images Cells are detected (yellow detection mask) and tracked over time (red trajectory shows movement history of the cell). Trace plot shows velocity in green and major / minor ratio in purple.
Images courtesy of: Laboratory of Molecular Biology, National Institute of Neurological Disorders and Stroke

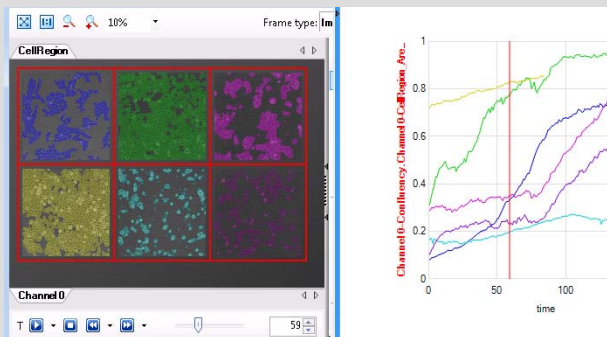


Angiogenesis tubule formation Tubules (green overlay) and cell clusters (yellow) are detected separately in phase contrast images. Tubule area, length, and branch counts for each cluster are reported.
Sample: Phase contrast image of PC3-3 cells in culture
Images courtesy of: Stem Cell Research Division, Life Technologies

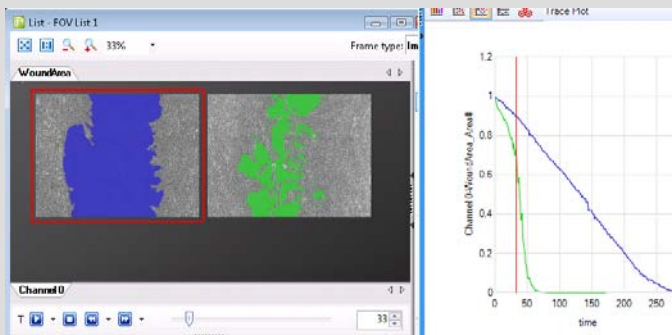


Standard Recipe Analysis Suite

DRVision is leveraging the power of SVCell to create a world-leading suite of off-the-shelf image analysis modules for phase and fluorescence live cell applications.



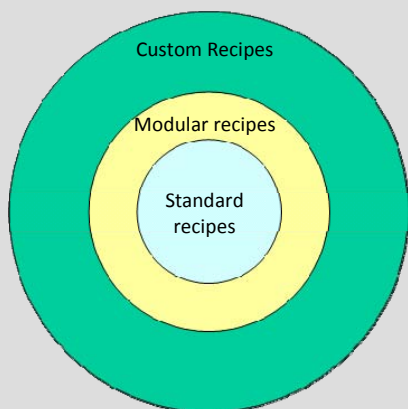
The cell proliferation standard recipe automatically detects and measures cell growth over time. In the figure at left, Cho (navy), Cos-7 (green), Hek (purple), Hela (gold), INS1 (blue) and NIH3T3 (dark purple) cell regions are detected (colored detection mask overlays shown) and their confluency over time is measured.



The wound healing standard recipe automatically detects and compares the rates of wound closure. In the figure at right, two different wound movies are shown with varying rates of closure.

Application Roadmap

Three types of recipes are available. In addition to the “off-the-shelf” universal standard recipes, easy-to-use wizards are provided to support the creation or update of modular recipes for extended applications. Custom recipes can also be created for applications not supported by the wizards. As shown in the figure below, applications currently addressed by custom recipes, will be addressed by standard recipes and/or modular recipes over time. The recipes collectively can address a wide range of applications as shown in the table.



	Standard recipes					Modular Recipes	Custom Recipes
	Cell proliferation	Wound healing	Cell count*	Cell Motility*	Exocytosis*		
Stem cell research	x		x	x		x	x
Cancer research	x	x	x	x		x	x
Toxicology	x	x	x	x		x	x
Basic research		x	x	x		x	x
Virology			x		x	x	x
Drug screening	x	x	x	x		x	x
Bioprocess	x		x			x	x

*These standard recipes are under development for SVCell 2.1

SVCell is protected by U.S. Patents

6400849, 6404934, 6456741, 6463175, 6504959, 6507675, 6640008, 6859550, 6941288, 7031529, 7031948, 7096207, 7110603, 7133560, 7139764, 7142718, 7149357, 7203360, 7233931, 7263509, 7293000, 7430320, 7466872, 7574454

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