

*Fast, automated image analysis making common assays easier*  
*Analyzing the micro-world*

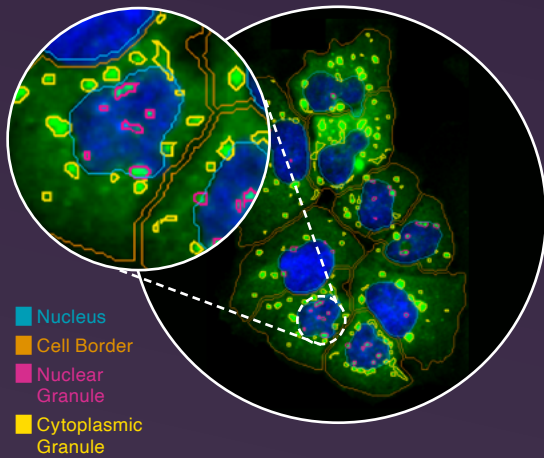
Red cells in Red infected with SARS-CoV-2 (nucleocapsid labeling);  
Blue cells are uninfected



## **HERMES for MICROBIOLOGY**

- *Reach 100nm image resolution with Super-Resolution via SRRF*
- *Plate-wide scanning with oil immersion objectives*
- *Automated oil dispensing*
- *Specialized software package for microbiology*





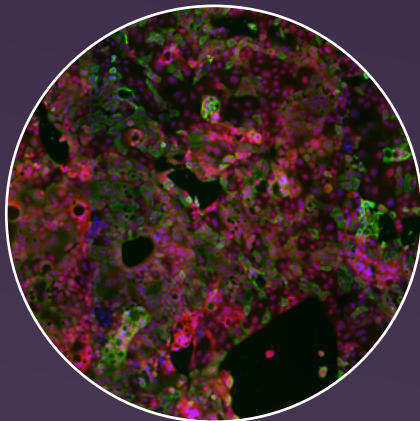
### Translocation & Spot Detection

Applications include intracellular bacterial counting or viral infection, combined with transcription factor detection and measurement.

Detect single cells and separate intracellular areas into nuclear and cytoplasmic compartments. Within each cell, identify granules, foci or other spots.

#### Key Features

- Compartmentalize cells into nucleus and cytoplasm
- Compartment-specific intensity, area, total spot count and ratios between them
- Measure intensity of additional protein-of-interest in nucleus & cytoplasm



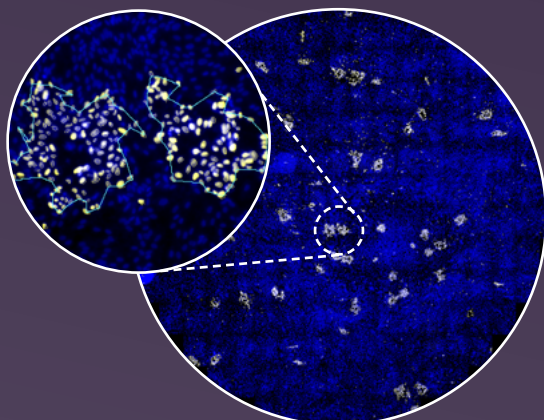
### Detecting Viral Spread

Applications include viral plaque assays and general infection assays to study neighbor-neighbor infection.

Detect single cells or nuclei in two colors to identify cellular populations present together in the sample.

#### Key Features

- Label two cell types to measure area covered by each and contact area between them
- Quantify infected vs. non-infected cell counts
- Identify groups of nearby cells to identify colonies
- Count number of neighboring cells of each cell type



### Colony Detection

Applications include viral plaque assays, neutralization assay, bacterial colony generation.

Detect single cells or nuclei defining colonies by building them up from these single elements. Distance between individual elements and minimal count numbers permit flexible yet reproducible identification of colonies.

#### Key Features

- True cell per colony measurement
- Area and cell density metrics
- Colony shape & morphology extracted
- Compatible with brightfield images

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