Tips for running a successful live cell imaging experiment
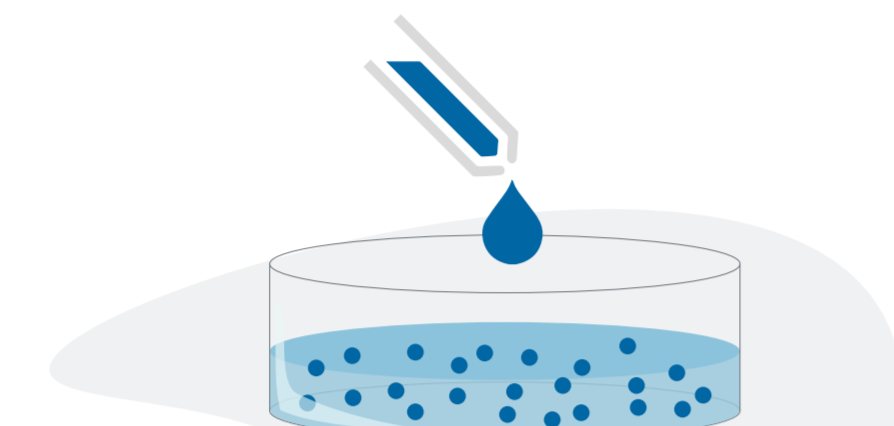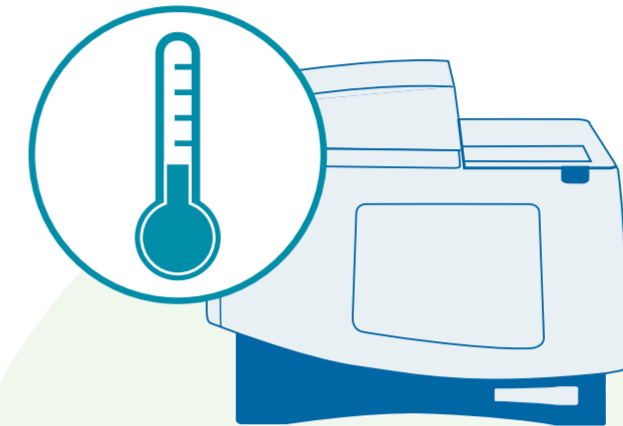
Matthew Hammer | Cellular Imaging Applications Scientist

MOLECULAR DEVICES

> *Tips & techniques to maintain sample integrity and acquire high resolution cell images*

1. CORRECT MEDIA
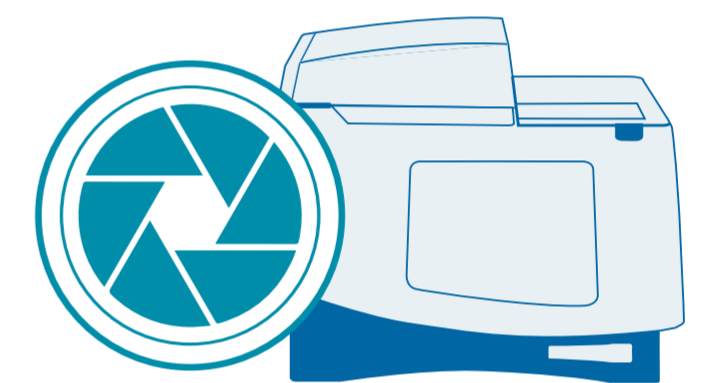Use the correct media formulation when preparing your samples

2. ENVIRONMENTAL CONTROLS
Control and maintain proper environmental conditions when imaging your samples

3. AUTOFOCUS
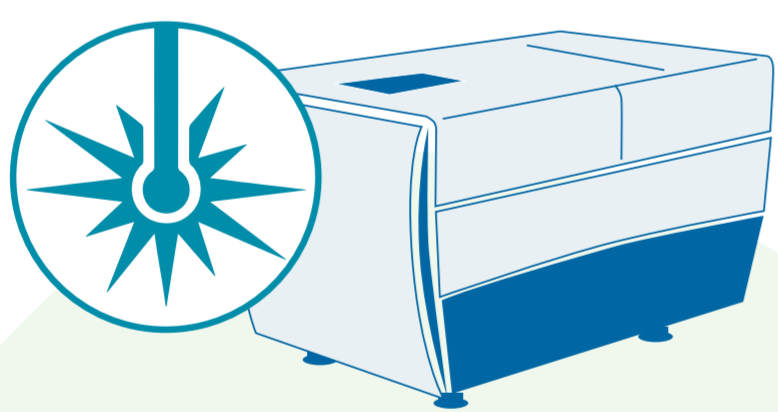Use robust autofocus modes during image acquisition

4. EXPOSURE
Minimize the power of the illuminating light source as well as your exposure time during image acquisition

5. DECONVOLUTION
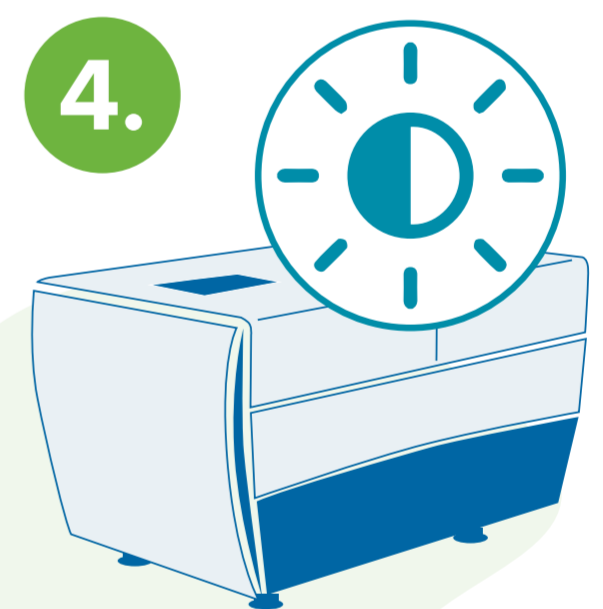If appropriate, employ image deconvolution algorithms when using widefield microscopy systems

6. LASER ILLUMINATION & BINNING
Use confocal imaging systems that allow for the use of high-power laser light sources and binning

7. HCA SOFTWARE
Utilize powerful high-content analysis (HCA) software and machine learning to obtain reproducible and meaningful data

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lab notes