**How to select the proper microscope or Image Processing/Analysis software**

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| 1. Guide to select the proper microscope:
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| **Microscope**  | **FL** (**Mono**) | **HE, IHC (Color)**  | **3D, Z-stack** | **Live cell, t-lapse**  | **Content** | **Automation** |
| **AKOYA PCF2** | **++++** | **+** | **++** | **N/A** | **Multi-Plexing** | **+++++** |
| **MD IXMC** | **++++** | **N/A** | **+++** | **++++** | **High** | **+++++** |
| **Olympus/Evident BX61** | **++++** | **++++** | **+++** | **+** | **Medium** | **+++** |
| **Leica SP5 II** | **+++++** | **+++++** | **+++++** | **+++++** | **Medium** | **++** |
| **Keyence BZ-X810** | **++++** | **+++** | **+++** | **++** | **Medium** | **++++** |

1. Guide to select the proper image processing/analysis software

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| --- | --- | --- | --- | --- | --- | --- |
| Software  | SegmentationMeasurement | Quality Control | Colocalization | 3D  | Deconvolution  | Live cell Tracking |
| Fiji/ImageJ | **++2D** | **N/A** | **+++** | **+** | **+** | **+** |
| Image Pro Analyzer | **+++2D** | **N/A** | **++** | **+** | **+** | **+** |
| Imaris | **+++++2D&3D** | **N/A** | **++++Obj** | **+++++** | **++++** | **+++++** |
| Huygens | **N/A** | **++++** | **+** | **++++** | **+++++** | **N/A** |
| **MetaXpress** | **++++2D** | **N/A** | **+++** | **++** | **++** | **++** |

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Remarks:

+++++: Best available at BCCHR Imaging Core

++++: Better for high Performance and/or Advanced Level Applications

+++: Better for most routine applications

++: Good for certain simple routine applications

+: Only good for quick, simple and preliminary test and result

N/A: Not Appliable