**Supplemental file**

Picture explaining how the different coating have been disposed in the 96-well plate.

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**Experimental parameters:**

To Acquire the images:

- Application: *Confluence*

*-* Image Acquisition setting: *Auto Exposure*

- Configuration: *Brightfield*

- Acquisition resolution: *1um/pixel*

- For the *Contrast: auto contrast*

- For the Focus set up:

- “*hardware autofocus – register auto mode*”

- *Target focal plane bright focus*.

For the Analysis:

- Application: *Confluence*

*-* Analysis resolution*: 2um/pixel*

*-* Algorithm*: Texture*

*-* Intensity threshold: *15*

*-* Precision*: High*

*-* Min cluster size*: 50 µm^3*

**Imaging parameters used**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Channel Name** | **Name** | **Cube** | **Contrast Method** | **Emission Wavelength** | **Peak Emission** | **Peak Excitation** |
| Channel 1 | DAPI | DAPI  | FLUO | nm | 461 | 0 nm |
| Channel 2 | RHOAD | RHOAD | FLUO | nm | 578 | 0 nm |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Channel Name** | **Lookup table name** | **Exposure time** | **Gain** | **Differential interference contrast** | **Condenser** | **Resolution XY** | **Resolution Z** |
| Channel 1 | Blue | 220.02 ms | 0 | - |  | 0.469 µm | 1.281 µm |
| Channel 2 | Red | 795 ms | 0 | - |  | 0.469 µm | 1.281 µm |

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| --- |
| **Camera settings** |
| Camera | Hamamatsu-C11440-42U-USB-001428 |
| Format | -- |
| Digitization | 16 bits |
| Gamma | 0.9807789 |
| Quality Mode | 1 MHz |
| Image Flip X Axis | No |
| Image Flip Y Axis | No |
| Black-Value | 0 |
| White-Value | 65535 |
| Shading Correction | OFF |

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| --- |
| **Microscope Settings** |
| **System Name**  | **LAS X** |
| Microscope Model | DMI8 |
| OBjective | HC PL FLUOTAR L 40x/0.60 DRY |
| Order number (Obj.) | 11506201 |
| Numerical aperture | 0.6 |
| Refractive index | 1 |
| Mounting Medium Refraction index |  |
| Z Movement | Z then Lambda |
| Camera Light | 100% |