



63X_1_4_610 - Multiple Bead Image Summary

Microscope info:

| Image | | Image1 | | | | |
|--------------------|----------------------|-------------------------|----------|------------|-------------------|------------------|
| image's creation | date | 2024-10-17 10:22:33 | | | | |
| | method used | from file creation date | | | | |
| Actual image depth | | 16 | | | | |
| Microscope type | | WideField | | | | |
| Objective | NA | 1.4 | | | | |
| | im. refractive index | 1.518 | | | | |
| Channel(s) | | Wavelengths | | Saturation | sampling (X,Y,Z) | |
| | | Ex. (nm) | Em. (nm) | | Nyquist (μm) | Found (μm) |
| Channel 0 | | | 610.0 | none | 0.109x0.109x0.328 | 0.063x0.063x0.06 |
| | | | | | | 0.6, 0.6, 0.2 |

Warnings:

(No saturated pixels detected).

(All channels sampled following Shannon-Nyquist criterion).

(A subresolution bead is used for all channels).

Analysis parameters

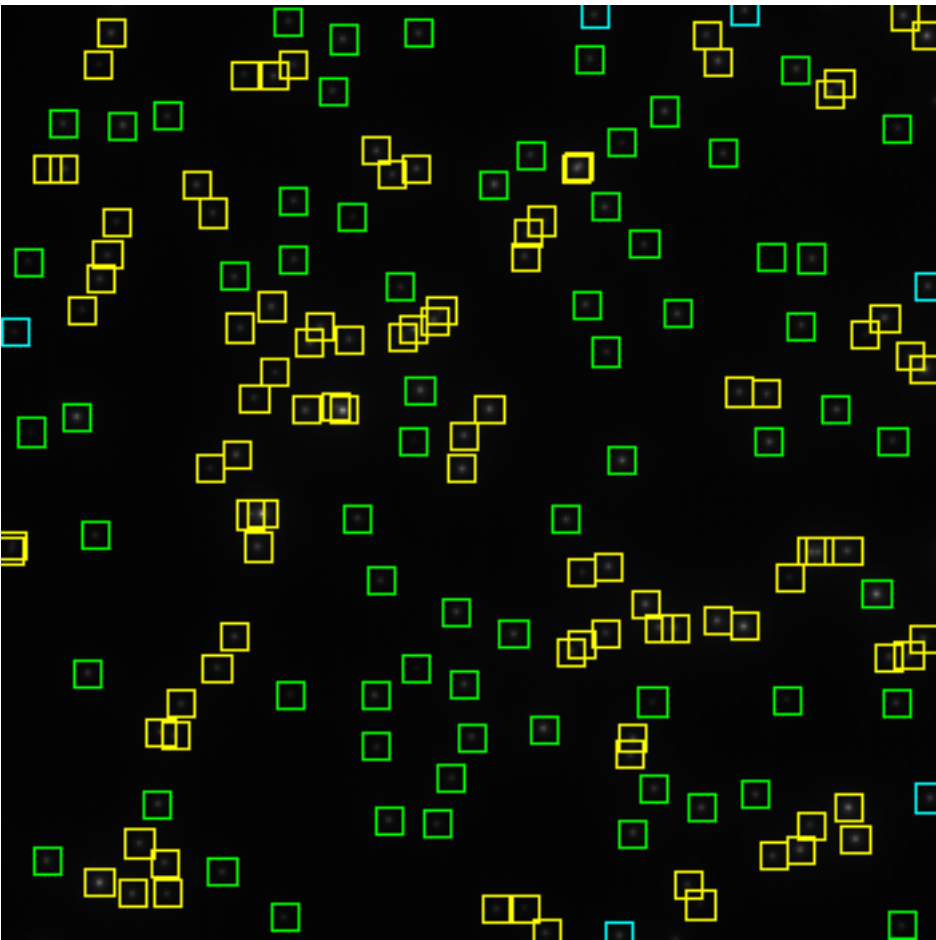
| | | |
|---------------------------------|--|---|
| Tool & Operator | Tool | Batch PSF Profiler |
| | Versions | MetroloJ_QC v1.3.1.1, ImageJ v2.14.0/1.54f, Java v1.8.0_322, OS Mac OS X |
| | Operator & date | SO, October 25, 2024 2:38 PM |
| data | result folder | /Users/oggsc/Documents/OM/ImageAnalysis/QC/Elyra/PSFs/20241014/63X_1_4/610/ |
| | Type of saved data | .pdf, .jpg, .xls |
| | Input data bit depth | 16 |
| Dimension order | | XY-(C)Z |
| Discard saturated samples | | false |
| Beads | Bead detection threshold | Legacy |
| | Center detection method | Legacy Maximum Intensity |
| | Discard bead if more than one particle are thresholded | true |
| | Background annulus thickness in μm | 0.5 |
| | Background annulus distance to bead edges in μm | 0.5 |
| | Multiple beads in image | true |
| | Bead identification method | Using Find Maxima (prominence of 1000.0) |
| | Bead size (μm) | 0.1 |
| | Bead crop Factor | 5.0 |
| | Cropped ROI size in μm | 2.31x2.31 (using bead size & background annulus parameters) |
| Square Root PSF Image displayed | | true |
| Tolerance | Applied in this report | true |
| | X & Y FWHM ratios valid if below | 1.5 |
| | Z FWHM ratio valid if below | 2.0 |
| Measurement rejected | Outliers | true (using IQR) |
| | R2 ratio below | 0.95 |

Analysis log

| image name | creation date | sampling density | identified raw beads | valid beads | saturation | status |
|------------|---------------------|------------------|----------------------|-------------|------------|-------------------|
| Image 1 | 2024-10-17 10:22:33 | correct | 169 | 67 | none | valid beads found |
| | | | | bead0 | none | analysed |
| | | | | bead1 | none | analysed |
| | | | | bead2 | none | analysed |
| | | | | bead3 | none | analysed |
| | | | | bead4 | none | analysed |
| | | | | bead5 | none | analysed |
| | | | | bead6 | none | analysed |
| | | | | bead7 | none | analysed |
| | | | | bead8 | none | analysed |
| | | | | bead9 | none | analysed |
| | | | | bead10 | none | analysed |
| | | | | bead11 | none | analysed |
| | | | | bead12 | none | analysed |
| | | | | bead13 | none | analysed |
| | | | | bead14 | none | analysed |
| | | | | bead15 | none | analysed |
| | | | | bead16 | none | analysed |
| | | | | bead17 | none | analysed |
| | | | | bead18 | none | analysed |
| | | | | bead19 | none | analysed |
| | | | | bead20 | none | analysed |
| | | | | bead21 | none | analysed |
| | | | | bead22 | none | analysed |
| | | | | bead23 | none | analysed |
| | | | | bead24 | none | analysed |
| | | | | bead25 | none | analysed |
| | | | | bead26 | none | analysed |
| | | | | bead27 | none | analysed |
| | | | | bead28 | none | analysed |
| | | | | bead29 | none | analysed |
| | | | | bead30 | none | analysed |
| | | | | bead31 | none | analysed |
| | | | | bead32 | none | analysed |
| | | | | bead33 | none | analysed |
| | | | | bead34 | none | analysed |
| | | | | bead35 | none | analysed |
| | | | | bead36 | none | analysed |
| | | | | bead37 | none | analysed |
| | | | | bead38 | none | analysed |
| | | | | bead39 | none | analysed |
| | | | | bead40 | none | analysed |
| | | | | bead41 | none | analysed |
| | | | | bead42 | none | analysed |
| | | | | bead43 | none | analysed |
| | | | | bead44 | none | analysed |
| | | | | bead45 | none | analysed |
| | | | | bead46 | none | analysed |
| | | | | bead47 | none | analysed |
| | | | | bead48 | none | analysed |
| | | | | bead49 | none | analysed |
| | | | | bead50 | none | analysed |
| | | | | bead51 | none | analysed |
| | | | | | | |

| | | | |
|--|--------|------|----------|
| | bead52 | none | analysed |
| | bead53 | none | analysed |
| | bead54 | none | analysed |
| | bead55 | none | analysed |
| | bead56 | none | analysed |
| | bead57 | none | analysed |
| | bead58 | none | analysed |
| | bead59 | none | analysed |
| | bead60 | none | analysed |
| | bead61 | none | analysed |
| | bead62 | none | analysed |
| | bead63 | none | analysed |
| | bead64 | none | analysed |
| | bead65 | none | analysed |
| | bead66 | none | analysed |

Identified beads



green: valid bead, yellow: too close to another bead, magenta: too close to stack's top or bottom, cyan: too close to the image's edges.