63X_1_4_525 - Multiple Bead Image Summary

Microscope info:

Image		Image10					
image's creation	date	2024-10-17 10:22:15					
	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)	Nyquist/found ratio
Channel 0			525.0	<0.1%	0.094x0.094x0.282	0.063x0.063x0.06	0.7, 0.7, 0.2

Warnings:

Saturation in highlighted channels may affect result.

(All channels sampled following Shannon-Nyquist criterion).
(A subresolution bead is used for all channels).

Analysis parameters

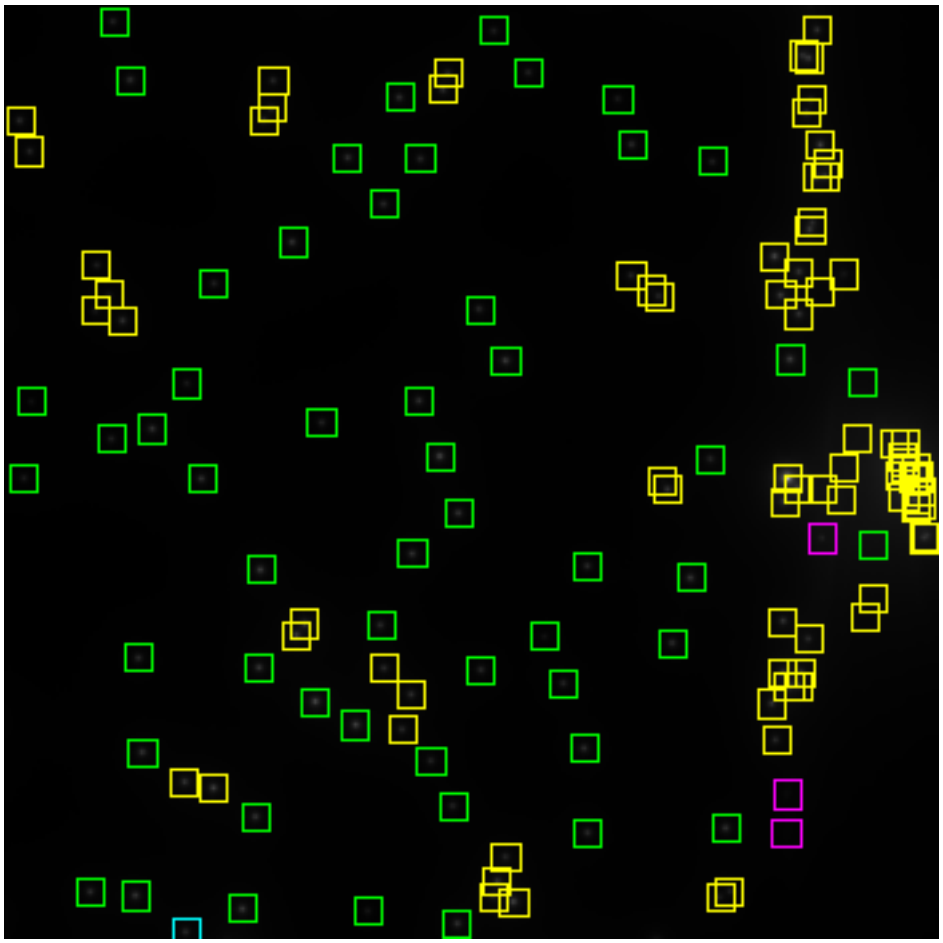
Tool & Operator	Tool	Batch PSF Profiler
	Versions	MetroloJ_QC v1.3.1.1, ImageJ v2.14.0/1.54f, Java v1.8.0_322, OS Mac OS X
	Operator & date	SO, October 25, 2024 2:34 PM
data	result folder	/Users/oggsc/Documents/OM/ImageAnalysis/QC/Elyra/PSFs/20241014/63X_1_4/525/
	Type of saved data	.pdf, .jpg, .xls
	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 10	2024-10-17 10:22:15	correct	137	54	Ch.0 saturated	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

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.