



63X_1_2_525 - Multiple Bead Image Summary

Microscope info:

Image		GreenBeads63x.lif-Series002				
image's creation	date	2024-10-26 09:47:51				
	method used	from file creation date				
Actual image depth		12				
Microscope type		WideField				
Objective	NA	1.2				
	im. refractive index	1.333				
Channel(s)		Wavelengths		Saturation	sampling (X,Y,Z)	
		Ex. (nm)	Em. (nm)		Nyquist (μm)	Found (μm)
Channel 0			525.0	none	0.109x0.109x0.349	0.103x0.103x0.099
					Nyquist/fo und ratio	
					0.9, 0.9, 0.3	

Warnings:

(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 31, 2024 8:25 AM
data	result folder	/Users/oggsc/Documents/OM/ImageAnalysis/QC/Thunder/PSF/20241015/63X_1_2_525/
	Type of saved data	.pdf, .jpg, .xls
	Input data bit depth	12
Dimension order		XY-(C)Z
Discard saturated samples		true
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 50.0)
	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
GreenBeads63x.lif - Series002	2024-10-26 09:47:51	correct	2339	244	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

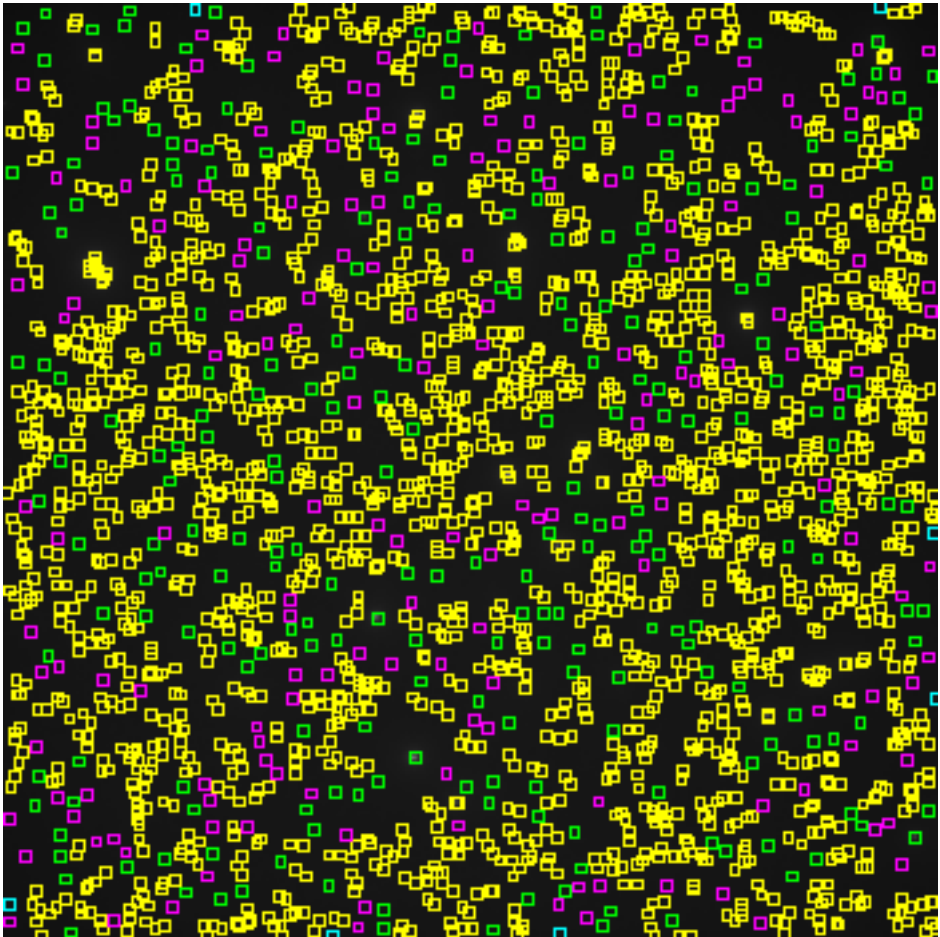
	bead52	none	analysed
	bead53	none	analysed
	bead54	none	analysed
	bead55	none	analysed
	bead56	none	analysed
	bead57	none	analysed
	bead58	none	analysed
	bead59	none	analysed
	bead60	none	analysed
	bead61	none	analysed
	bead62	none	analysed
	bead63	none	analysed
	bead64	none	analysed
	bead65	none	analysed
	bead66	none	analysed
	bead67	none	analysed
	bead68	none	analysed
	bead69	none	analysed
	bead70	none	analysed
	bead71	none	analysed
	bead72	none	analysed
	bead73	none	analysed
	bead74	none	analysed
	bead75	none	analysed
	bead76	none	analysed
	bead77	none	analysed
	bead78	none	analysed
	bead79	none	analysed
	bead80	none	analysed
	bead81	none	analysed
	bead82	none	analysed
	bead83	none	analysed
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	bead100	none	analysed
	bead101	none	analysed
	bead102	none	analysed
	bead103	none	analysed
	bead104	none	analysed
	bead105	none	analysed
	bead106	none	analysed
	bead107	none	analysed
	bead108	none	analysed
	bead109	none	analysed

	bead110	none	analysed
	bead111	none	analysed
	bead112	none	analysed
	bead113	none	analysed
	bead114	none	analysed
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	bead146	none	analysed
	bead147	none	analysed
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	bead153	none	analysed
	bead154	none	analysed
	bead155	none	analysed
	bead156	none	analysed
	bead157	none	analysed
	bead158	none	analysed
	bead159	none	analysed
	bead160	none	analysed
	bead161	none	analysed
	bead162	none	analysed
	bead163	none	analysed
	bead164	none	analysed
	bead165	none	analysed
	bead166	none	analysed
	bead167	none	analysed

	bead168	none	analysed
	bead169	none	analysed
	bead170	none	analysed
	bead171	none	analysed
	bead172	none	analysed
	bead173	none	analysed
	bead174	none	analysed
	bead175	none	analysed
	bead176	none	analysed
	bead177	none	analysed
	bead178	none	analysed
	bead179	none	analysed
	bead180	none	analysed
	bead181	none	analysed
	bead182	none	analysed
	bead183	none	analysed
	bead184	none	analysed
	bead185	none	analysed
	bead186	none	analysed
	bead187	none	analysed
	bead188	none	analysed
	bead189	none	analysed
	bead190	none	analysed
	bead191	none	analysed
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	bead205	none	analysed
	bead206	none	analysed
	bead207	none	analysed
	bead208	none	analysed
	bead209	none	analysed
	bead210	none	analysed
	bead211	none	analysed
	bead212	none	analysed
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	bead214	none	analysed
	bead215	none	analysed
	bead216	none	analysed
	bead217	none	analysed
	bead218	none	analysed
	bead219	none	analysed
	bead220	none	analysed
	bead221	none	analysed
	bead222	none	analysed
	bead223	none	analysed
	bead224	none	analysed
	bead225	none	analysed

	bead226	none	analysed
	bead227	none	analysed
	bead228	none	analysed
	bead229	none	analysed
	bead230	none	analysed
	bead231	none	analysed
	bead232	none	analysed
	bead233	none	analysed
	bead234	none	analysed
	bead235	none	analysed
	bead236	none	analysed
	bead237	none	analysed
	bead238	none	analysed
	bead239	none	analysed
	bead240	none	analysed
	bead241	none	analysed
	bead242	none	analysed
	bead243	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.