

63X_1_2_525 - Batch Summary

Microscope info:

حاجات		1510					
da	ata	1518 analysed images					
images location /Users/oggsc/Documents/OM/ImageAnalysis/QC/Thunder/PSF/20241015/63X_1					015/63X_1_2_52		
Actual im	ge depth 12						
Microsc	ope type	WideField	WideField				
	NA	1.2					
Objective	im. refractive index	ive 1.333					
		Wavelengths			samplin	g (X,Y,Z)	
Chan	Channel(s)		Em. (nm)	unsaturated/tota I images	Nyquist (µm)	correctly sampled/total images	
Char	Channel 0		525.0	all ok	0.109x0.109x0. 349	(all ok, all ok, all ok)	

Warnings:

(no saturation issue detected)

(All images & channels sampled following Shannon-Nyquist criterion)

(A subresolution bead is used for all channels).

Average resolutions values:

		Х	Υ	Z
	average FWHM (µm)	0.27	0.283	0.898
	FWHM std dev (µm)	0.009	0.009	0.051
Ob and all O	theoretical value (µm)	0.223	0.223	0.86
Channel 0	number of beads	1159	1132	1195
	mean R2 value	1.0	0.99	0.98
	mean SBR value		0.0	

Measured/theoretical resolution ratios and lateral asymmetry ratios:

Channel	X ratio	Y ratio	Z ratio	Lateral Asymmetry
Channel 0	1.21	1.27	1.04	0.95

Green: within specifications, red: outside specifications (ie. XY ratios above 1.5 or Z ratio above 2.0)

Analysis parameters

	Tool	Batch PSF Profiler
Tool & Operator	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 8:41 AM
	result folder	/Users/oggsc/Documents/OM/ImageAnalysis/QC/Thunder/ PSF/20241015/63X_1_2_525/Processed/63X_1_2_525/
data	Type of saved data	.pdf, .jpg, .xls
	Input data bit depth	12
Dime	ension order	XY-(C)Z
Discard s	aturated samples	true
	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
Beads	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
	Applied in this report	true
Tolerance	X & Y FWHM ratios valid if below	1.5
	Z FWHM ratio valid if below	2.0
Measurement	Outliers	true (using IQR)
rejected	R2 ratio below	0.95

image name	creation date	sampling density	identified raw beads	valid beads	saturation	status
	2024-10-26 09:47:20	correct	859	428	none	valid beads found
				bead0	none	analysed
				bead1	none	analysed
				bead2	none	analysed
				bead3	none	analysed
				bead4	none	analysed
				bead5	none	analysed
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				bead21	none	analysed
				bead22	none	analysed
				bead23	none	analysed
				bead24	none	analysed
GreenBeads63x.lif - Series005				bead25	none	analysed
Green Beddesex Cerreces				bead26	none	analysed
				bead27	none	analysed
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 1 1407	none	analysed
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bead164	none	analysed
bead165	none	analysed
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D-au203	HOHE	l analyse0

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bead385 bead386	none	
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bead389	none	analysed
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bead391	none	analysed
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bead393	none	analysed
bead394	none	analysed
	none	
bead395	none	analysec
bead396	none	analysed
bead397	none	analysed
bead398 bead399	none none	analysed analysed
DODGRAN	nona	2021//600

				bead400	none	analysed
				bead401	none	analysed
				bead402	none	analysed
				bead403	none	analysed
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				bead407	none	analysed
				bead408		analysed
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				bead409	none	analysed
	-			bead410	none	analysed
				bead411	none	analysed
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				bead419	none	analysed
				bead420	none	analysed
				bead421	none	analysed
				bead422		analysed
				bead423	none none	analysed
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	+			bead427	none	analysed
	2024-10-26 09:47:32	correct	981	462	none	valid beads found
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				bead10	none	analysed
				bead10 bead11		•
					none	analysed
	<u> </u>			bead12	none	analysed
GreenBeads63x.lif - Series004	<u> </u>			bead13	none	analysed
				bead14	none	analysed
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				bead17	nono	analysed
				beau 17	none	
				bead18	none	analysed
				bead18	none	analysed
				bead18 bead19	none none	analysed analysed
				bead18 bead19 bead20	none none	analysed analysed analysed
				bead18 bead19 bead20 bead21	none none none none none	analysed analysed analysed analysed analysed
				bead18 bead19 bead20 bead21 bead22 bead23	none none none none none none	analysed analysed analysed analysed analysed
				bead18 bead19 bead20 bead21 bead22 bead23 bead24	none none none none none none none none	analysed analysed analysed analysed analysed analysed analysed
				bead18 bead19 bead20 bead21 bead22 bead23 bead24 bead25	none none none none none none none none	analysed analysed analysed analysed analysed analysed analysed analysed analysed
				bead18 bead19 bead20 bead21 bead22 bead23 bead24 bead25 bead26	none none none none none none none none	analysed
				bead18 bead19 bead20 bead21 bead22 bead23 bead24 bead25	none none none none none none none none	analysed analysed analysed analysed analysed analysed analysed analysed analysed

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Deadon		

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bead87	none	analysed
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bead126	none	analysed
bead127 bead128	none	analysed
bead129	none	analysed analysed
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bead133	none	analysed
bead134	none	analysed
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bead137	none	analysed
bead138	none	analysed
bead139	none	analysed
bead139		analysed
bead141	none	analysed
bead142	none	analysed
bead143	none	analysed
 bead144		analysed
υ υ αυ 144	none	ananysec

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bead146	none	analysed
bead147	none	analysed
bead148	none	analysed
bead149	none	analysed
bead150	none	analysed
bead151	none	analysed
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bead182	none	analysed
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	none	analysed
bead202	110116	unaivoc.

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bead223 bead224	none	analysed
bead225	none	analysed analysed
bead226	none	
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bead228	none	analysed
bead229	none	analysed
bead230	none none	analysed analysed
bead231	none	analysed
bead231	none	analysed
bead232	none	analysed
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bead237	none	analysed
bead238	none	analysed
bead239	none	analysed
bead240	none	analyse
bead241	none	analysed
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bead243	none	analysed
bead244	none	analysed
bead245	none	analysed
bead246	none	analysed
bead247	none	analysed
bead248	none	analysed
		analysed
bead249	none	
bead249 bead250	none	
		analysed
bead250	none	analysed analysed
bead250 bead251	none none	analysed analysed analysed
bead250 bead251 bead252	none none none	analysed analysed analysed analysed
bead250 bead251 bead252 bead253	none none none	analysec analysec analysec analysec analysec
bead250 bead251 bead252 bead253 bead254	none none none none none	analysed analysed analysed analysed analysed analysed
bead250 bead251 bead252 bead253 bead254 bead255	none none none none none none	analysed analysed analysed analysed analysed analysed
bead250 bead251 bead252 bead253 bead254 bead255 bead256	none none none none none none none none	analysed analysed analysed analysed analysed analysed analysed
bead250 bead251 bead252 bead253 bead254 bead255 bead256 bead257	none none none none none none none none	analysed analysed analysed analysed analysed analysed analysed analysed analysed

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bead315		analysed
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bead317	none	
	none	analysed
bead318	none	analysed

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bead319	none	analysed
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bead321	none	analysed
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bead372	none	analysed
bead373	none	analysec
bead374	none	analysed
bead375	none	analysec
bead376	none	analysed

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bead379	none	analysed
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bead382	none	analysed
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bead415	none	analysec
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bead417 bead418	none	analysed
bead419	none	analysec analysec
bead420	none	analysed
bead421	none none	analysed
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bead433	none	analysed
bead434	none	analysed

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				i		
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				bead453	none	analysed
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				bead4	none	analysed
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				bead6	none	analysed
				bead7	none	analysed
				i		
				bead8	none	analysed
				bead9	none	analysed
				bead10	none	analysed
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CroonBoodsCov life Contactor				bead13	none	analysed
GreenBeads63x.lif - Series003				bead14	none	analysed
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				bead21	none	analysed
				bead22	none	analysed
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				bead24	none	analysed
				DOUGET		_ analyseu
				head2E		analysad
				bead25	none	analysed
				bead26	none none	analysed
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				bead26	none none	analysed

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	bead59	none	analysec
	bead60 bead61	none	analysed analysed
	bead62	none none	analysed
	bead63		analysed
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	bead72	none	analysec
	bead73	none	analysec
	bead74	none	analysed
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bead89	1	analysed
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bead100		analysed
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bead112 bead113		analysed
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bead116		analysed
bead117		analysed
bead118	i	analysed
bead119		analysed
bead120		analysed
bead121	i	analysed
bead122		analysed
bead123	i	analysed
bead124		analysed
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bead132	1	analysed
bead133	i	analysed
bead134		analysed
bead135		analysed
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bead140		analysed
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bead144		analysed
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bead184	none	
bead185	none	analysed analysed
bead186		analysed
bead187	none none	analysed
bead188		analysed
bead189	none none	analysed
bead190	none	analysed
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bead201	none	analysed
bead202	none	analysed
DEGUZUO	110116	ı anaiyətt

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bead204	none	analysed
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bead206	none	analysed
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bead209	none	analysed
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bead213	none	analysed
bead214	none	analysec
bead215	none	analysed
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DUGUZUT	110116	anaiyset

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bead282 bead283	none	analysed
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bead284 bead285	none	analysed
bead285 bead286	none	analysed
bead286 bead287	none	analysed
bead287 bead288	none	analysed analysed
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bead290 bead291	none	analysed
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		analysed
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		analysed
bead311	none	analysed analysed
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bead311 bead312 bead313 bead314	none none none	analysec analysec analysec analysec analysec
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				bead337 bead338	none	analysed analysed
					none	
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CroonBoodsCov life Continues				bead9	none	analysed
GreenBeads63x.lif - Series002				bead10	none	analysed
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				bead19	none	analysed
				bead20	none	analysed
				bead21	none	analysed

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bead26	none	analysed
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bead61	none	analysed
bead62	none	analysed
bead63	none	analysed
bead64	none	analysed
bead65 bead66	none	analysec
bead67	none	analysec analysec
bead68	none	analysed
bead69	none	analysed
bead70	none none	analysed
bead70	none	analysed
bead71	none	analysed
bead73	none	analysed
bead74	none	analysed
bead75	none	analysed
bead76		analysed
bead77	none	analysed
bead78	none	analysed
 bead79	none	analysed
		- culdivatio

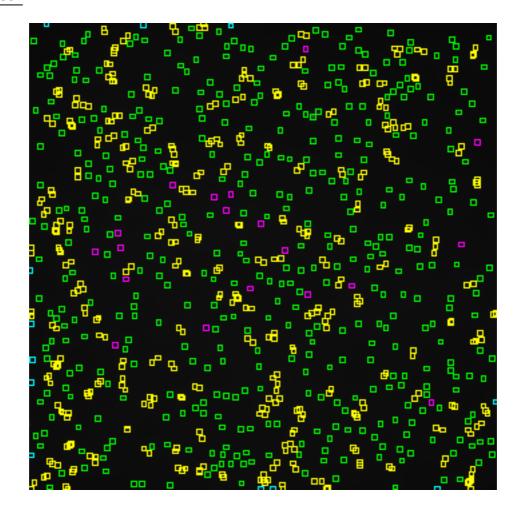
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bead85	none	analysec
bead86	none	analysec
bead87	none	analysec
bead88	none	analysed
bead89	none	analysed
bead90	none	analysed
bead91	none	analysed
bead92	none	analysed
bead93	none	analysed
bead94	none	analysed
bead95	none	analysed
bead96	none	analysed
bead97	none	analysed
bead98	none	analysed
bead99	none	analysed
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
bead115	none	analysed
bead116	none	analysed
bead117 bead118	none	analysed
	none	analysed
bead119	none	analysed
bead120 bead121	none	analysed
bead121	none	analysed analysed
bead123	none	analysed
bead124	none none	analysed
bead125	none	analysed
bead126	none	analysed
bead127	none	analysed
bead128	none	analysed
bead129	none	analysed
bead130	none	analysed
bead131	none	analysed
bead132	none	analysed
bead133		analysed
bead134	none	analysed
bead135	none	analysed
	none	
bead136 bead137	none	analysec analysec
peaul3/	none	ı anaivsec

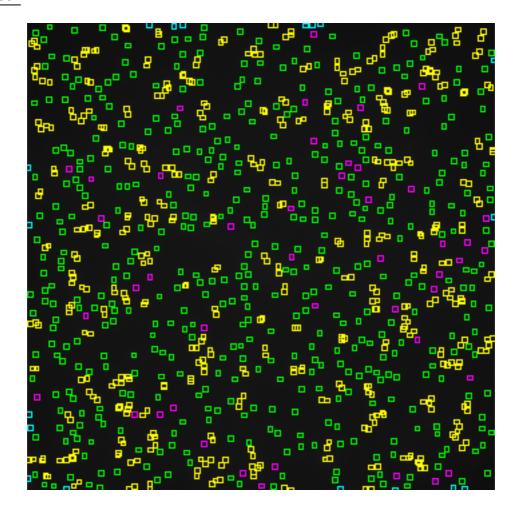
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bead138	none	analysed
bead139	none	analysed
bead140	none	analysed
bead141	none	analysed
bead142	none	analysed
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bead144	none	analysed
bead145	none	analysed
bead146	none	analysed
bead147	none	analysed
bead148	none	analysed
bead149	none	analysed
bead150	none	analysed
bead151	none	analysed
bead152	none	analysed
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 bead167	none	analysed analysed
bead168	none	analysed
bead169	none	analysed
bead170	none none	analysed
bead170		analysed
bead171	none	analysed
bead172 bead173	none	analysed
bead173	none	analysed
bead175	none	analysed
bead175	none	analysed
bead177	none	analysed
bead177 bead178	none	analysed
bead178	none	analysed
bead179 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
bead191	none	analysed
bead193	none	analysed
bead193 bead194	none	analysed
bead194	none	analysed
DGGG 133	HOHE	unanyset

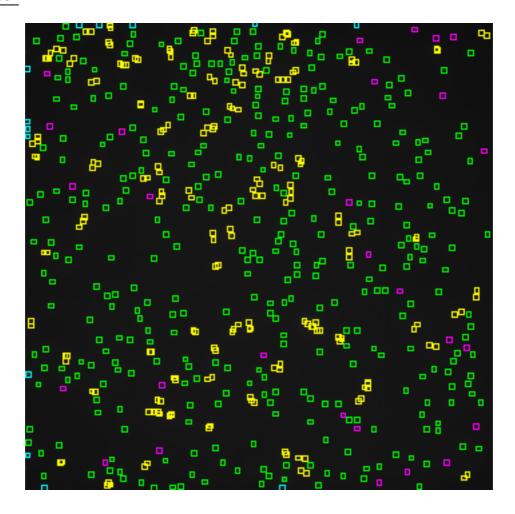
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				bead196	none	analysed
				bead197	none	analysed
				bead198	none	analysed
				bead199	none	analysed
				bead200	none	analysed
				bead201	none	analysed
				bead202	none	analysed
				bead203	none	analysed
				bead204	none	analysed
				bead205	none	analysed
				bead206	none	analysed
				bead207	none	analysed
				bead208	none	analysed
				bead209	none	analysed
				bead210	none	analysed
				bead211	none	analysed
				bead212	none	analysed
				bead213	none	analysed
				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		analysed
					none	1
				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
				bead241		analysed
					none	
	2024 10 26			bead243	none	analysed
	2024-10-26 09:48:00	correct	8173	29	none	valid beads found
				bead0	none	analysed
				bead1	none	analysed
				bead2	none	analysed
GreenBeads63x.lif - Series001				bead3	none	analysed
				bead4	none	analysed
				bead5	none	analysed
				bead6	none	analysed
				bead7	none	analysed
				bead8	none	analysed
L				-		1

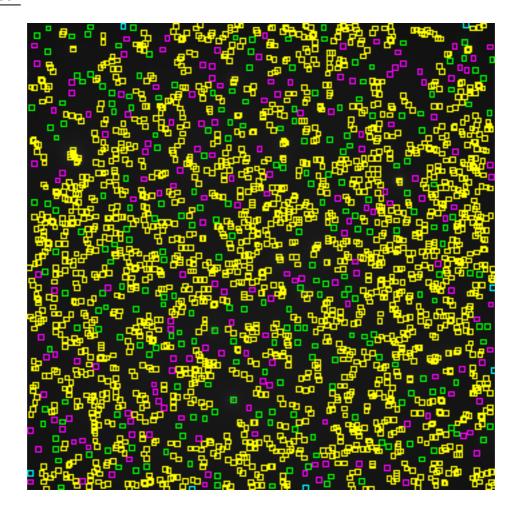
bead9	none	analysed
bead10	none	analysed
bead11	none	analysed
bead12	none	analysed
bead13	none	analysed
bead14	none	analysed
bead15	none	analysed
bead16	none	analysed
bead17	none	analysed
bead18	none	analysed
bead19	none	analysed
bead20	none	analysed
bead21	none	analysed
bead22	none	analysed
bead23	none	analysed
bead24	none	analysed
bead25	none	analysed
bead26	none	analysed
bead27	none	analysed
bead28	none	analysed

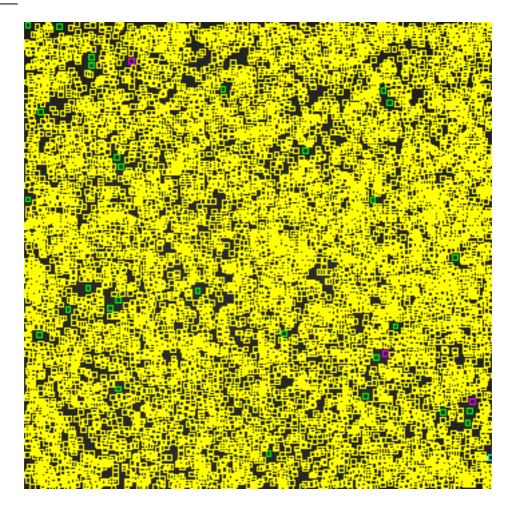
Identified beads











Formulas used:

Lateral $(res_{x,y}^o)$ and axial (res_z^o) theoretical resolution values used for widefield microscopes are calculated as defined in Wilhelm, S. Confocal Laser Scanning Microscopy, 2011:

$$res_{x,y}^o = \frac{0.51*\lambda_{em}}{NA}$$
 $res_z^o = \frac{1,77n*\lambda_{em}}{NA^2}$

NA: numerical aperture, λ_{em} : emission wavelength, n: refractive index of the lens immersion & mounting media.

Axis profiles are fitted using ImageJ Gaussian Curve Fitter and the following formula $y = a + (b - a) * e^{\frac{-(x-c)^2}{2d^2}}$ (Gaussian fitting).

Measured lateral and axial resolution (Full Width at Half Maximum, FWHM) values are derived using FWHM = $2d\sqrt{2ln(2)}$

Compliance with the Shannon-Nyquist criterion uses the following formulas for Shannon-Nyquist distances calculation:

$$\alpha = \arcsin(\frac{NA}{n})$$

$$\Delta_{x,y} = \frac{\lambda_{em}}{4.NA} \qquad \Delta_z = \frac{\lambda_{em}}{2.n. (1-\cos{(\alpha)})}$$