

Vendor	Magnification	Batch	Plate_Name	Binning	Number_of_channels	Modality	Phase_Stage_Name	Images_per_well	BF_ZPlanes
MolDev	10	Scope1_MolDev_10X	Plate3_PCO_E68_48h_10XPA	1	6	1	Confocal	JUMP-MDA_compound	4
		Scope1_MolDev_10X_48h2	Plate3_PCO_E68_48h_10XPA_Chrast	1	6	1	Confocal	JUMP-MDA_compound	4
		Scope1_MolDev_20X_48h	Plate3_PCO_E68_48h_20XPA_Chrast	1	6	3	Confocal	JUMP-MDA_compound	4
	20	Scope1_MolDev_20X_84h	Plate2_PCO_E68_84h_20XPA	1	6	1	Confocal	JUMP-MDA_compound	9
		Scope1_MolDev_20X_Adaptive	Plate3_PCO_E68_Adaptive_20XPA	1	6	1	Confocal	JUMP-MDA_compound	9
Nikon	10 (0.45 NA)	Scope1_Nikon_10X	BR00117081a10x	1	4	1	Widefield	JUMP-MDA_compound	1
			BR00117081a10x	1	4	1	Widefield	JUMP-MDA_compound	1
			BR00117081b10x	1	4	1	Widefield	JUMP-MDA_compound	1
	20 (0.78 NA)	Scope1_Nikon_20X	BR00117082b	1	4	1	Widefield	JUMP-MDA_compound	9
PE	20 (1 NA)	Scope1_PE_Bin1_Confocal_1Plane	CP_Broad_Phase_C_BIN1_Plane_P1	1	5	1	Confocal	JUMP-MDA_compound	3
			CP_Broad_Phase_C_BIN1_Plane_P2	1	5	1	Confocal	JUMP-MDA_compound	3
			CP_Broad_Phase_C_BIN1_Plane_P3	1	5	1	Confocal	JUMP-MDA_compound	3
		Scope1_PE_Bin1_Confocal_3Plane	CP_Broad_Phase_C_BIN1_P1	1	5	3	Confocal	JUMP-MDA_compound	3
			CP_Broad_Phase_C_BIN1_P2	1	5	3	Confocal	JUMP-MDA_compound	3
			CP_Broad_Phase_C_BIN1_P3	1	5	3	Confocal	JUMP-MDA_compound	3
		Scope1_PE_Bin1_Widefield_1Plane	CP_Broad_Phase_NC_BIN1_Plane_P1	1	5	1	Widefield	JUMP-MDA_compound	3
			CP_Broad_Phase_NC_BIN1_Plane_P2	1	5	1	Widefield	JUMP-MDA_compound	3
			CP_Broad_Phase_NC_BIN1_Plane_P4	1	5	1	Widefield	JUMP-MDA_compound	3
		Scope1_PE_Bin1_Widefield_3Plane	CP_Broad_Phase_NC_BIN1_P1	1	5	3	Widefield	JUMP-MDA_compound	3
			CP_Broad_Phase_NC_BIN1_P2	1	5	3	Widefield	JUMP-MDA_compound	3
			CP_Broad_Phase_NC_BIN1_P4	1	5	3	Widefield	JUMP-MDA_compound	3
	Scope1_PE_Bin2_Confocal_1Plane	CR1roadPhenoc1PlaneP1	2	5	1	Confocal	JUMP-MDA_compound	3	
		CR1roadPhenoc1PlaneP2	2	5	1	Confocal	JUMP-MDA_compound	3	
		CR1roadPhenoc1PlaneP3	2	5	1	Confocal	JUMP-MDA_compound	3	
		Scope1_PE_Bin2_Confocal_3Plane	CR1roadPhenoc1PlaneP1	2	5	3	Confocal	JUMP-MDA_compound	3
			CR1roadPhenoc1PlaneP2	2	5	3	Confocal	JUMP-MDA_compound	3
			CR1roadPhenoc1PlaneP3	2	5	3	Confocal	JUMP-MDA_compound	3
		Scope1_PE_Bin2_Widefield_1Plane	CR1roadPhenoc1PlaneP1	2	5	1	Widefield	JUMP-MDA_compound	3
			CR1roadPhenoc1PlaneP2	2	5	1	Widefield	JUMP-MDA_compound	3
			CR1roadPhenoc1PlaneP3	2	5	1	Widefield	JUMP-MDA_compound	3
		Scope1_PE_Bin2_Widefield_3Plane	CR1roadPhenoc1PlaneP1	2	5	3	Widefield	JUMP-MDA_compound	3
			CR1roadPhenoc1PlaneP2	2	5	3	Widefield	JUMP-MDA_compound	3
			CR1roadPhenoc1PlaneP3	2	5	3	Widefield	JUMP-MDA_compound	3
Yokogawa_Japan	20 (0.75)	Scope1_Yokogawa_Japan_20X	20201021702217	1	5	10	Confocal	JUMP-MDA_compound	9
	40 (0.35)	Scope1_Yokogawa_Japan_40X	20201021704366	1	5	12	Confocal	JUMP-MDA_compound	9
Yokogawa_US	10 (0.40)	Scope1_Yokogawa_US_10X	BR00117014_10x	1	6	12	Confocal	JUMP-MDA_compound	4
			BR00117013_20x	1	5	1	Confocal	JUMP-MDA_compound	9
	20 (1.00)	Scope1_Yokogawa_US_20X_8Ch	BR00117016_20x	1	5	1	Confocal	JUMP-MDA_compound	9
		Scope1_Yokogawa_US_20X_8Ch_12Z	BR00117016_20x	1	5	12	Confocal	JUMP-MDA_compound	9
	40 (1.00)	Scope1_Yokogawa_US_40X	BR00117019_40x	1	6	12	Confocal	JUMP-MDA_compound	9
		Scope1_Yokogawa_US_40X_12Z	BR00117019_40x	1	6	12	Confocal	JUMP-MDA_compound	9
			BR00117018_20x	1	5	1	Confocal	JUMP-MDA_compound	9
			BR00117017_20x	1	5	1	Confocal	JUMP-MDA_compound	9
			BR00117015_20x	1	5	1	Confocal	JUMP-MDA_compound	9
			BR00117014_20x	1	5	1	Confocal	JUMP-MDA_compound	9

BF profiling analysis (there) are percent replicating and matching figures, but they are not included in any of the batch analysis

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6112448/



Instrument	Modality	ObjectiveMagr	ObjectiveNA	LightSource	Dye	Excitation Laser Line (nm)	Emission Filter (center/band nm)	Binning	Comment			
Nikon Eclipse Ti2 inverted microscop	WF?	20x	0.75 NA	LED	Hoechst	395/25	460/25	1	Well name as prefix			
					FITC -Alexa488 - GFP	470/24	535/20	1	Objective type as suffix			
					TRITC - Cy3 - RFP	555/25	620/30	1	No suffix – 20x/0.75 NA objective (9 images per well)			
	WF?	10x	0.45 NA		Cy5	640/30	670/25	1	"10X" suffix – 10x/0.45 NA objective (1 image per well)			
									Single z plane			

Instrument	ObjectiveMagr	ObjectiveNA	LightSource	Dye	Organelle or Cellular component	Laser Excitation	Dichroic Filter	Emission Filter	Exposure time	Additional info	Gain	Binning	Camera
ImageXpress Micro Confocal (IXM-Confocal)	Nikon 20x	0.75 NA Plan Apo Lambda (Part No. 1-6300-0295)	Laser	MitoTracker Deep Red 633	Mitochondria	640 nm	Penta Band: 405/470/555/640/730 nm	669 - 693 nm	40 ms	Single plane, <b>with confocal launcher</b> , with 9 sites/well took 3.2 hrs to image the entire plate-- Confocal launcher: using dual micro-lens spinning disk confocal launcher to even fluorescence background	1 (1.1 e/cnt)	1 x 1	26 MP PCO. SDK
				Phalloidin Alexa Fluor 569	Actin	577 nm	593 nm	604 - 644 nm	50 ms				
				Wheat-germ agglutinin Alexa Fluor 555	Golgi	555 nm	Penta Band: 405/470/555/640/730 nm	579.5 - 610.5 nm	15 ms				
				SYTO 14 RNA 521/547	Nucleoli	520 nm	532 nm	542 - 582 nm	3 ms				
				Concanavalin A Alexa Fluor 488	Endoplasmic Reticulum	470 nm	Penta Band: 405/470/555/640/730 nm	506 - 534 nm	6 ms				
				Hoechst 33342	Nuclei	405 nm	Penta Band: 405/470/555/640/730 nm	429.5 - 474.5 nm	30 ms				
				MitoTracker Deep Red 633	Mitochondria	640 nm	Penta Band: 405/470/555/640/730 nm	669 - 693 nm	5 ms	Single plane, <b>without confocal launcher</b> , with 9 sites/well took 3.2 hrs to image the entire plate			
				Phalloidin Alexa Fluor 569	Actin	577 nm	593 nm	604 - 644 nm	30 ms				
				Wheat-germ agglutinin Alexa Fluor 555	Golgi	555 nm	Penta Band: 405/470/555/640/730 nm	579.5 - 610.5 nm	4 ms				
				SYTO 14 RNA 521/547	Nucleoli	520 nm	532 nm	542 - 582 nm	3 ms				
				Concanavalin A Alexa Fluor 488	Endoplasmic Reticulum	470 nm	Penta Band: 405/470/555/640/730 nm	506 - 534 nm	3 ms				
				Hoechst 33342	Nuclei	405 nm	Penta Band: 405/470/555/640/730 nm	429.5 - 474.5 nm	7 ms				
				Hoechst 33342	Nuclei	405 nm	Penta Band: 405/470/555/640/730 nm	429.5 - 474.5 nm	120 ms	Single plane (60 um pinhole), with 2-3 sites/well took 1hr to image the entire plate			
				MitoTracker Deep Red 633	Mitochondria	640 nm	Penta Band: 405/470/555/640/730 nm	669 - 693 nm	100 ms				
				Phalloidin Alexa Fluor 569	Actin	577 nm	593 nm	604 - 644 nm	500 ms				
				Wheat-germ agglutinin Alexa Fluor 555	Golgi	555 nm	Penta Band: 405/470/555/640/730 nm	579.5 - 610.5 nm	100 ms				
SYTO 14 RNA 521/547	Nucleoli	520 nm	532 nm	542 - 582 nm	150 ms								
Concanavalin A Alexa Fluor 488	Endoplasmic Reticulum	470 nm	Penta Band: 405/470/555/640/730 nm	506 - 534 nm	150 ms								

Instrument	ObjectiveMagnification	ObjectiveImmersion	ObjectiveNA	Imaging Mode	Channel	Dye	Excitation(nm)	Emission(nm)	Power [%] (BIN2)	Exp-Time [ms] (BIN2)	Power [%] (BIN1)	Exp-Time [ms] (BIN1)
Opera Phenix Plus	20x	Water	1	Confocal	DNA	Hoechst	375	435-480	50	60	100	80
					ER	Concanavalin A	488	500-530*	30	60	80	60
					RNA	SYTO 14	488	515-550*	20	60	80	60
					AGP	WGA-Phalloidin	561	570-630	60	60	100	60
					Mito	Mitotracker DR	640	650-760	20	60	80	60
				WideField	DNA	Hoechst	375	435-480	20	20	50	20
					ER	Concanavalin A	488	500-530	15	15	40	15
					RNA	SYTO 14	488	570-630	20	20	50	20
					AGP	WGA-Phalloidin	561	570-630	50	20	90	20
					Mito	Mitotracker DR	640	650-760	15	15	50	15

ObjectiveMagr	ObjectiveImm	ObjectiveNA	LightSource	Laser Power	ExposureTime	Channel	Excitation	Emissions	Binning	Pixel size
20X	Dry	0.75	Laser	20%	200 ms	Ch1	Excitation 405 nm	Emission 447/60	1 x 1	0.325
				20%	200 ms	Ch2	Excitation 488 nm	Emission 525/50		
				20%	200 ms	Ch3	Excitation 488 nm	Emission 617/73		
				30%	300 ms	Ch4	Excitation 561nm	Emission 617/73		
				20%	300 ms	Ch5	Excitation 640 nm	Emission 708/75		
40X	Dry	0.95	Laser	20%	300 ms	Ch1	Excitation 405 nm	Emission 447/60	1 x 1	0.1625
				20%	300 ms	Ch2	Excitation 488 nm	Emission 525/50		
				25%	300 ms	Ch3	Excitation 488 nm	Emission 617/73		
				40%	400 ms	Ch4	Excitation 561nm	Emission 617/73		
				25%	300 ms	Ch5	Excitation 640 nm	Emission 708/75		



Microscope	Channel	Excitation (nm)	Emission (nm)							
Molecular Devices - ImageXpress Micro Confocal	Nuclei	405	452/22.5			429.5	474.5	452 /	22.5	452/22.5
	ER	470	520/14			506	534	520	14	520/14
	RNA	520	562/20			542	582	562	20	562/20
	Golgi	555	595/15.5			579.5	610.5	595	15.5	595/15.5
	Actin	577	624/20			604	644	624	20	624/20
	Mitochondria	640	681/12			669	693	681	12	681/12
Opera Pherix Plus - Confocal	DNA	375	457.5/22.5						0	
	ER	488	515/15			435	480	457.5	22.5	457.5/22.5
	RNA	488	532.5/17.5			500	530	515	15	515/15
	AGP	561	600/30			515	550	532.5	17.5	532.5/17.5
	Mito	640	705/55			570	630	600	30	600/30
Opera Pherix Plus - Widefield	DNA	375	457.5/22.5			650	760	705	55	705/55
	ER	488	515/15							
	RNA	488	600/30			435	480	457.5	22.5	457.5/22.5
	AGP	561	600/30			500	530	515	15	515/15
	Mito	640	705/55			570	630	600	30	600/30
Yokogawa Japan	DNA	405	447/60			570	630	600	30	600/30
	ER	488	525/50			650	760	705	55	705/55
	RNA	488	617/73							
	AGP	561	617/73							
Yokogawa US	Mito	640	708/75 (or 676/29 for some plates)							
	RNA	488	600/37							
	WGA	561	600/37							
	DNA	405	445/45							
Nikon	ER	470/24	535/20							
	RNA/AGP	555/25	620/30							
	DNA	395/25	460/25							
	Mito	640/30	670/25							