

	λ_{exc} (nm)	λ_{em} (nm) or Filter	Fluo lamp	Fluo Filter	Magnification	NA	Immersion	Environment	Additional features	
Leica SP5	405	AOBS - 5 detection channels with arbitrary wavelength range selection	Mercury Arc Lamp	Dapi	10	0,3	dry	Temp. and CO ₂ control	Fast Resonant Tandem Scanner (8.000 Hz) & 2 sensitive Hyd detectors & fully motorised stage	
	458			GFP	20	0,7	multi imm			
	476			CY3	40	1,25	oil			
	488			CY5	100	1,44	oil			
	496				63	1,3	glyc			
	514				63	1,2	water			
	561									
	633									
Zeiss SD		DM: 405/488/561/635	X-Cite 120					Temp. and CO ₂ , O ₂ , N ₂ control	EVOLVE 512 EMCCD Kamera 512x512, 30 fpsec emission image splitter for simultaneous imaging of 2 channels (e.g. for calcium imaging)	
	405	Evolve-Pos1: BP 450/50 - AxioCam-Pos1: BP 450/50		DAPI, ex 335-383, em BP 445/50	10	0,45	dry			
	488	Evolve-Pos2: BP 525/50 - AxioCam-Pos2: BP 525/50		eGFP, ex BP 470/40, em BP 525/50	25	0,8	mult imm			
	561	Evolve-Pos3: BP 629/62 - AxioCam-Pos3: BP 629/62		Cy 3, ex 538-562, em BP 605/70	40	1,1	water			
	635	Evolve-Pos4: BP 690/50 - AxioCam-Pos4: DBP 527/54+645/60		Cy 5, ex BP 640/30 em BP 690/50	63	1,4	oil			
		Evolve-Pos5: BP 595/50 - AxioCam-Pos5: BP 690/50			63	1,2	oil			
		Evolve-Pos6: BP 725/40 - AxioCam-Pos6: BP 725/40			63	1,15	water			
		add-on filter: 583/22								
Abberior STED	405 cw RESOLFT	ET525/50	Cool LED		60	1,42	oil	Temp. control	APD Detection Units (4 channels) 775nm STED depletion laser	
	485 cw RESOLFT		400							
	488 pulsed STED/RESOLFT		490							
	594 pulsed STED		585							
	640 pulsed STED		635							
			ET685/70							
Zeiss NLO-880 2 Photon	405	LSM - 3 detection channels with arbitrary wavelength range selection	HXP 120V		10	0,3	water dipping no glass corr.	N-Achroplan	AxioCam MRm	
	458		38 wf	ex:BP470/40; em:BP525/50	20	1	water dipping no glass corr.	Plan - Aplanachromat		
	488		43 wf	ex: BP545/25; em:BP605/70	40	1	water dipping no glass corr.	Plan - Aplanachromat		
	514		49 wf	ex: G 365; em: BP445/50	63	1,40	oil	Plan - Aplanachromat		
	561		50 wf	ex:BP640/30; em:BP690/50	20	1	water	N-Achroplan		
	633									
	680 - 1300 2P		objective NDD - 2 channels with exchangeable filters 500-550 / 575-610 / 650-700							
	1040 2P			NDD - 4 channels: SP485 / 500-550 / 575-610 / 640-710						
Zeiss CellDiscoverer	LED 385 BP385/30	pos. 1: quad-band filter set 90HE: beamsplitter RQTF 405+493+575+653, em QBP 425/30+514/30+592/25+709/100			2,5	0,35	dry	Temp. and CO ₂ control	Autocorrection lenses glass or plastic bottom, port for injection, magnification changer 0,5x 1x 2x, AxioCam	
	LED 470 BP469/38				5	0,35	dry			
	LED 567 BP555/30				10	0,35/0,7	dry			
	LED 625 BP631/33				20	0,7	dry			
					40	0,7	dry			
		pos. 2 - 7: none								

	λ_{exc} (nm)	λ_{em} (nm) or Filter	Fluo lamp	Fluo Filter	Magnification	NA	Immersion	Environment	Additional features
Leica DMI8 TIRF	488 TIRF laser	TriWF-TIRF: ex 400/22+488/10+561/10; dm 420+505+572; em 448/48; 525/32; 611/70			10	0,32	dry		Infinity port sCMOS camera Hamamatsu Orca flash 4.0 SRRF: Andor Ixon Ultra EMCCD BiophotonicsPC
	561 TIRF laser	GFP-TIRF: ex 475/40; dm 500; em 530/50			40	0,60	dry		
		CFP/YFP-TIRF:ex 405/10+488/10; dm 418+500; em 545/50+ LP500			63	1,40	oil		
	sola light engine	Y3-TIRF: ex555/25; dm575; em605/55 (add-on)			100 TIRF	1,47	oil		
	405 / 60	LED-405: ex405/60; dm 455; em 470/40			405 - 470/40				
	480 / 40	FITC: ex480/40; dm505; em527/30			FITC - 527/30				
	546 / 10	RHOD: ex546/10; dm560; em585/40 (add-on)			Rhod - 585/40				
620 / 60	Y5: ex620/60; dm660; em700/75	Y5 - 700/75							
Leica THUNDER imager	LED8	2 quad-filtercubes: CYR + DFT		corr. ring plastic or glas 0-2mm corr. ring temp & coverslip corr. ring temp & coverslip	5	0,12	dry	Temp. and CO ₂ control	ICC (instant computational clearing), 3D samples
	395	CYR ex: 436/28, 506/21, 578/24, 730/40			10	0,32	dry		
	438	CYR dm: 459, 523, 598, 763			20	0,80	dry		
	475	CYR em: 473/22, 539/24, 641/78, 810/80			40	0,60	dry		
	511	DFT ex: 391/32, 479/33, 554/24, 638/31			40	1,1	water		
	555	DFT dm: 415, 500, 572, 660			63	1,3	glyc		
	575	DFT em: 435/30, 519/25, 594/32, 695/58							
	635	emission filter wheel with 5 positions:							
	730	460/80, 535/70, 590/50, 642/80, 100%							
	Leica Stellaris 8	405			AOBS - 5 detection channels with arbitrary wavelength range selection (410-850nm)	LED 3 390-680nm	LED405: ex405/60, dm455; em470/40 FITC: ex480/40; em527/30 RHOD: ex546/10; em585/40		
White light laser (WLL) 440-790nm 8 channel AOTF		20	0,75	multi imm					
		40	1,3	oil					
		63	1,3	glyc					
		100	1,44	oil					
100x objective is used with SP5 and Stellaris 8 and needs to be included in booking				objectives have glass correction \approx /0.17 unless stated otherwise					
LaVision lightsheet located at Med3 Universitätsstr.25a	488	BP 525/50			1,26-12,6	0,5	correction for aqueous buffers or organic		Andor sCMOS max sample size 30mmx30mm
	561	BP 620/60							
	640	BP 680/30							
	785	BP 845/55							