

Materials List for:

Microfluidic Imaging Flow Cytometry by Asymmetric-detection Time-stretch Optical Microscopy (ATOM)

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Materials

Name	Company	Catalog Number	Comments
Nikon Plan Fluorite Physiology Objectives 40X	Nikon	MRF07420	Objective lens (Obj2)
Olympus Plan Fluorite Objective, 0.75 NA, 0.51 mm WD, 40X	Olympus	RMS40X-PF	Objective lens (Obj1)
N-BK7 Plano-Convex Lenses	Thorlabs	LA1145-C	For relaying spectral shower
FC/APC Fiber Collimation Package	Thorlabs	F220APC-1064	For outputting and collecting laser pulses
Pellicle beamsplitter	Thorlabs	BP145B3	For making beam replica
Protected silver mirror	Thorlabs	PF10-03-P01	For reflecting light
800-1650nm 12GHz single mode DC-coupled NIR Photoreceiver	Newport	1544-B	For converting light into electrical signal
Infiniium High-Performance Oscilloscope	Agilent	DSOX91604A	To save the light-converted electrical signals
HI1060 optical fiber	Corning	HI1060	Optical fiber for time-stretch
YTTERBIUM DOPED FIBER AMPLIFIER	Keopsys	KPS-STD-BT-YFA-37-BO-SM-111-FA-FA	Optical in-line amplifier
Holographic grating	Wasatch Photonics	020305-6	Grating
Infuse/Withdraw Syringe Pumps	Harvard Apparatus	PHD 2000	Syringe pump for sample loading in micro-fluidic channels