

Materials List for:

# Application of Membrane and Cell Wall Selective Fluorescent Dyes for Live-Cell Imaging of Filamentous Fungi

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## Materials

Name	Company	Catalog Number	Comments
BRAND cell counting chamber	Merck	BR718005	Thoma format
Calcofluor White M2R	Merck/Sigma-Aldrich	F3543	cell wall dye
CFI Plan Apo VC 60x/1.2 NA XC WI	Nikon	MRD07602	water immersion objective
CFI Plan Apo VC 60x/1.2 NA XC WI	Nikon	MRD07602	water immersion objective
Congo Red	Merck/Sigma-Aldrich	C6277	cell wall dye
Dimethyl sulfoxide	VWR	8,36,73,230	organic solvent
Eclipse TE2000-E with C1 scanning unit	Nikon	custom configuration	inverted laser scanning confocal microscope used to acquire example data 2 and 4
Eclipse TE2000-U with Bio-Rad Radiance 2100 scanning unit	Nikon	custom configuration	inverted laser scanning confocal microscope used to acquire example data 5
FM 1-43	Merck/Sigma-Aldrich	S6814	membrane dye
FM 4-64	Merck/Sigma-Aldrich	S6689	membrane dye
Glass beads	Rettberg	1340691030	3 mm glass beads
Glass cover slips	Thermo Fisher Scientific	BB02400600A113MNT0	24 x 60 # 1 glass cover slips
HCX PL APO 63x/1.3 NA Glyc	Leica	15506353	glycerol immersion objective
LSM 510 Meta	Zeiss	custom configuration	inverted laser scanning confocal microscope used to acquire example data 3
M9 Minimal Medium	Merck/Sigma-Aldrich	M6030	generic fungal growth medium
Micro-slide 8-well	ibidi	80826	ibiTreat #1.5 polymer coverslip
Miracloth	Merck/Millipore	475855-1R	polyester filtration material
Petri dish	Sarstedt	8,21,472	92 x 16 mm culture dish w/o cams
Phytigel	Merck/Sigma-Aldrich	P8169	transparent gelling agent
Plan Achromat 63x/1.4 NA Oil DIC	Zeiss	440762-9904-000	oil immersion objective
Pontamine Fast Scarlet 4B	Merck/Sigma-Aldrich	212490	cell wall dye
Potato Dextrose Agar (PDA)	BD Difco	213400	fungal growth medium for <i>T. atroviride</i>
Potato Dextrose Broth (PDB)	BD Difco	254920	fungal growth medium for <i>T. atroviride</i>
Reaction tube	Sarstedt	72,706	1.5 mL SafeSeal tube
Scalpel	B.Braun	5518016	Cutfix sterile scalpel #23
Screw cap tube	Sarstedt	6,25,54,502	15 mL polypropylene tube
Solophenyl Flavine 7GFE 500	CIBA	1485385V6	cell wall dye

SynaptoGreen C4	Biotum	70020	membrane dye
SynaptoRed C2	Biotum	70021	membrane dye
Syringe membrane filter	Thermo Fisher Scientific	723-9945	0.45 µm SFCA syringe filter
TCS SP5 II	Leica	custom configuration	inverted laser scanning confocal microscope used to acquire example data 1
Vogel's Minimal Medium (VMM)	FGSC	Fungal Genetics Stock Centre	fungal growth medium for <i>N. crassa</i>