

Materials List for:

Fluorescence-Activated Cell Sorting for the Isolation of Scleractinian Cell Populations

Grace A. Snyder¹, William E. Browne², Nikki Traylor-Knowles^{*1}, Benjamin Rosental^{*3}

¹Department of Marine Biology and Ecology, Rosenstiel School of Marine and Atmospheric Science, University of Miami

²Department of Biology, University of Miami

³The Shraga Segal Department of Microbiology, Immunology, and Genetics, Faculty of Health Sciences, and Regenerative Medicine and Stem Cell Research Center, Ben Gurion University of the Negev

* These authors contributed equally

Correspondence to: Nikki Traylor-Knowles at ntraylorknowles@rsmas.miami.edu, Benjamin Rosental at rosentab@post.bgu.ac.il

URL: <https://www.jove.com/video/60446>

DOI: [doi:10.3791/60446](https://doi.org/10.3791/60446)

Materials

Name	Company	Catalog Number	Comments
Airbrush Kit & Compressor	TCP Global	ABD KIT-H-SET	Paasche H Series Single-Action Siphon Feed Airbrush Kit with Master TC-20 Compressor & Air Hose
BD FACSAria II	BD	644832	
Bone Cutters	Bulk Reef Supply	205357	Oceans Wonders Coral Stony Bone Cutter
Cell Strainer	Corning	352340	40 µm; BD Falcon; individually wrapped; sterile; nylon
CellRox Green	Life Technologies	C10444	2.5 mM in DMSO; Excitation/Emission: 485/520 nm
Collection bag	Grainger	38UV35	Reloc Zippit 6"L x 4"W Standard Reclosable Poly Bag with Zip Seal Closure, Clear; 2 mil Thickness
DAPI	Invitrogen	D1306	10mg in H ₂ O; Excitation/Emission: 358/461 nm
Fetal Calf Serum	Sigma-Aldrich	F2442-100ML	Heat-inactivated at 57 °C for 30 minutes
Hemocytometer	Sigma-Aldrich	Z359629	Bright-Line Hemocytometer
HEPES Buffer	Sigma-Aldrich	H0887	
LysoTracker Deep Red	Life Technologies	L12492	1mM in DMSO; Absorption/Emission: 647/668 nm
Microcentrifuge tubes	VWR	87003-294	1.7 mL
Phosphate Buffered Saline (PBS)	Gibco	70011-044	pH 7.4; 10X
Round-bottom tubes	VWR	352063	5 mL Polypropylene Round-Bottom Tube
Syringe	BD	309628	1 mL BD Luer-Lok Syringe sterile, single use polycarbonate