

Materials List for:

Isolating Intestinal Stem Cells from Adult *Drosophila* Midguts by FACS to Study Stem Cell Behavior During Aging

Helen M. Tauc^{*1}, Alpaslan Tasdogan^{*2}, Petra Pandur¹

¹Institut für Biochemie und Molekulare Biologie, Universität Ulm

²Institut für Immunologie, Universitätsklinikum Ulm

*These authors contributed equally

Correspondence to: Petra Pandur at petra.pandur@uni-ulm.de

URL: <https://www.jove.com/video/52223>

DOI: [doi:10.3791/52223](https://doi.org/10.3791/52223)

Materials

Name	Company	Catalog Number	Comments
Forceps: Dumont, Inox Biologie #5	Fine Science Tools	11252-20	
SefarNitex 03-150um/38 (35 µm nylon mesh)	Sefar	3A03-0150-102-00	
Falcon 5 ml Round Bottom Polystyrene Test Tube with Cell Strainer Snap Cap	Corning	352235	
Polymax 1040	Heidolph	543-42210-00	
Albumin from bovine serum (BSA)	Sigma	A4503-50G	
0.5% Trypsin-EDTA	Invitrogen	15400-054	Trypsin obtained from a different company most likely has a different activity and the duration of the trypsin digest has to be adjusted accordingly.
SYTOX Blue Dead Cell Stain for flow cytometry	Life Technologies	S34857	
RNAlater Stabilization Solution	Life Technologies	AM7023	Other solutions, e.g., Trizol can be used for subsequent RNA isolation
FACSaria II cell sorter	Becton Dickinson		Turn on one hour prior to sorting