Oct 11, 2022

Post-Surgical Dissection of Fallopian Tubes

DOI
dx.doi.org/10.17504/protocols.io.14egn75eqv5d/v1

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Protocol Citation: Stephen Fisher, Marielena Grijalva, Rong Guo, Sarah A Johnston, Hieu Nguyen, John Renz, Jean G Rosario, Steven Rudich, Brian Gregory, Junhyong Kim, Kate O'Neill 2022. Post-Surgical Dissection of Fallopian Tubes. **protocols.io https://dx.doi.org/10.17504/protocols.io.14egn75eqv5d/v1**

Protocol status: Working
We use this protocol and it's working

Created: August 05, 2022

Last Modified: October 11, 2022

Protocol Integer ID: 68275

Keywords: dissection of the fallopian tube, fallopian tube, fallopian tube the muscule layer, dissection, dissection pin, tube, preparation for 10x visium, muscule layer, 10x visium, 10x multiomic, pathology review, pathology, muscular layer, inner mucosa

Funders Acknowledgements:
NIH
Grant ID: U54HD104392

Abstract

This protocol describes dissection of the Fallopian tubes in preparation for 10X Visium, 10X Multiomics, pathology review, and biobanking. The Fallopian tubes have an inner mucosa surrounded by a muscular layer that is coated by serosa. When sectioning the Fallopian tube the muscule layer may retract or protrude and distort orientation. This can be addressed by using a stabilizing hand or dissection pins.

Materials

- Ice
- Clean cutting surface
- Disposable scalpels
- Kimwipes
- Disposble rulers (with centimeter measurements)
- Ice bucket
- Biohazard bags and container
- Nuclease-free Water
- DMEM/F-12 **Thermo Fisher** **Catalog #**11320033
- RPMI 1640 Medium **Thermo Fisher** **Catalog #**11875085
- MACS® Tissue Storage Solution **Miltenyi Biotec** **Catalog #**130-100-008
- DPBS (10X), no calcium, no magnesium **Thermo Fisher Scientific** **Catalog #**14200075 - dilute to 1X with nuclease-free water
- Marking dye **Cancer Diagnostics** **Catalog #**03000P

Equipment

VWR® Pour-Boat Weighing Dishes	NAME
flat-bottomed dish	TYPE
VWR International	BRAND
10803-166	SKU

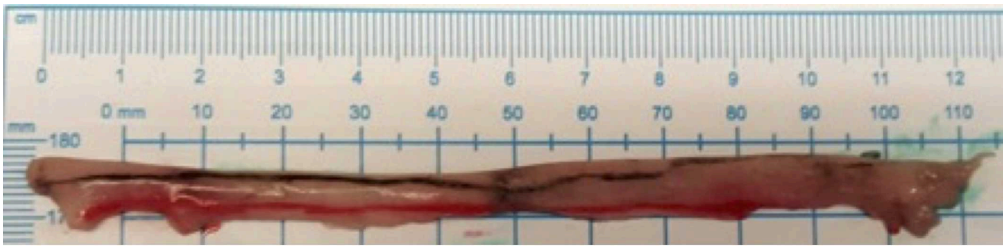
Troubleshooting

Before start

Dilute phosphate buffered saline (Gibco; 14200-075) to 1X with nuclease-free water.

1 After removing uterus and Fallopian tubes from ice, dry each Fallopian tube and use marking dye to label the superior edge (12 o'clock), inferior edge (6 o'clock), anterior surface (3 o'clock) and posterior surface (9 o'clock).

2 Measure the Fallopian tube from cornua to fimbriated end.



Measurement of Fallopian Tube. Left Fallopian tube is displayed from isthmus (left) to fimbriated end (right). Black line made with marking ink at 3 o'clock and red line made at 6 o'clock where the Fallopian tube attaches to the mesosalpinx.

3 Using a disposable scalpel, divide one Fallopian tube at the cornua and excise mesosalpinx.

4 Weigh Fallopian tube in a disposable weigh boat on ice.

5 Place on ice the uterus with the remaining contralateral Fallopian tube.

6 Remove the first Fallopian tube from ice and place on a cutting surface.

7 Divide Fallopian tube into four sections: isthmus, ampulla, infundibulum, and fimbriae.

8 Working one section at a time, slice tissue into four sections.

9 Using disposable weigh boats, weigh each tissue piece.

10 Tissue can be processed with protocols **OCT-Embedded Tissue Preparation**, **Tissue Fixation Preparation**, or **Snap-Frozen Tissue Preparation** depending on the desired

downstream processing.

11 Remove the uterus with the remaining contralateral Fallopian tube from ice and repeat above steps.