Princess Margaret Genomics Centre
101 College Street
PMCRT, Room 9-601A
Toronto, ON, M5G 1L7

PMGC SAMPLE SUBMISSION GUIDELINES FOR 10X GENOMICS XENIUM

Prior to Submission Date

1. Xenium is a very time-sensitive assay therefore, please coordinate with Farzaneh Aboualizadeh (farzaneh.aboualizadeh@uhn.ca) before mounting tissue sections on slides.
2. Please complete the **PMGC 10X Xenium Submission Form** prior to sample submission date.
3. Please ensure an **immediate contact** is available for potential issues arising during PMGC preparation requiring decisions for sample processing.
4. Incomplete submission forms or delays in receiving form will cause delays to processing samples under optimal conditions and in a timely manner.

Sample Drop-off / Shipping

If dropping off samples: Please **schedule your drop off date and time in advance** with your PMGC contact person.

- Your PMGC contact will meet you at the **9th floor elevator lobby** of the Princess Margaret Cancer Research Tower (PMCRT) at your pre-arranged time. PMCRT is the East Tower of the MaRS building, near the corner of College and Elizabeth Street entrance.
- Email or call/text when you are at the designated meeting area and your PMGC contact will come to collect the samples.
- REMINDER: Transport samples using appropriate means of storage (e.g., on dry ice for frozen samples, ice pack for FFPE). Please confirm with PMGC if any questions.

If shipping samples: Please ship out on **Monday/Tuesday** to prevent weekend delays. For fresh frozen samples place a generous supply of dry ice to ensure dry ice will remain for the duration of the delivery time. For international clients, we recommend shipping with World Courier for tissues/cells. Within Canada, we recommend FedEx Next Day Priority services.

Shipping address:

Attn: (insert PMGC contact person)
Princess Margaret Genomics Centre
101 College St.
PMCRT, Rm 9-601A
Toronto, Ontario M5G 1L7
Canada

Farzaneh Aboualizadeh
For 10X Xenium inquiries,
(416) 581-7439
Farzaneh.Aboualizadeh@uhn.ca

Dr. Troy Ketela, Head of Operations
For new project inquires,
(416) 634-8816
Geneservice@pmgenomics.ca

Princess Margaret Genomics Centre
101 College Street
PMCRT, Room 9-601A
Toronto, ON, M5G 1L7

Submission Receiving Conditions (Required)

1. Fresh Frozen Samples

1.1 Section placement on slides:

- Place the tissue sections within sample area (10.45mm * 22.45mm). The sample area is surrounded by fiducials (reference markers). Tissue sections placed within the sample area should **NOT** obstruct the fiducials.
- The sample area can accommodate as many tissue sections as can fit within the space. **Ensure tissue sections (including OCT) DO NOT overlap.**
- An etched label representing the slide ID, part and version numbers is located at the bottom of the slide. Tissue sections should be paced on labeled side of slide.
- Recommended section thickness for most tissue types is 10 µm.

1.2 Storage:

- Keep slides cold and transport on dry ice. **DO NOT leave slides at room temperature**.
- Store slides individually (one slide per slide mailer or 50-ml falcon tube) at -80°C.
- Slides need to be processed within 4 weeks so transfer them to PMGC as soon as you are done sectioning.

Please refer to **Fresh Frozen Tissue Preparation guideline** for details on how to prepare tissue sections.

2. FFPE Samples

2.1 Section placement on slides:

- Place the tissue sections within sample area (10.45mm * 22.45mm). The sample area is surrounded by fiducials (reference markers). Tissue sections placed within the sample area should NOT obstruct the fiducials.
- The sample area can accommodate as many tissue sections as can fit within the space. **Ensure tissue sections (including paraffin) DO NOT overlap.**
- An etched label representing the slide ID, part and version numbers is located at the bottom of the slide. Tissue sections should be paced on labeled side of slide.
- Recommended section thickness for most tissue types is 5 µm.

2.2 Storage:

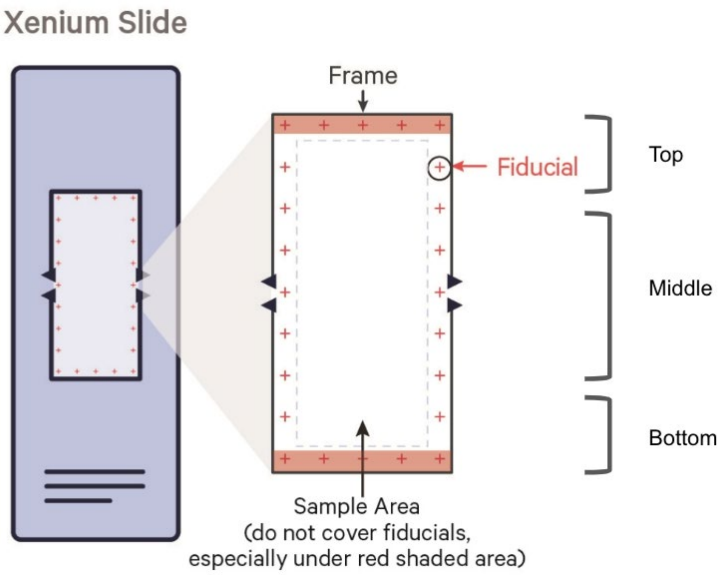
- Maintain slides containing tissue sections in a low moisture environment such as a desiccator.

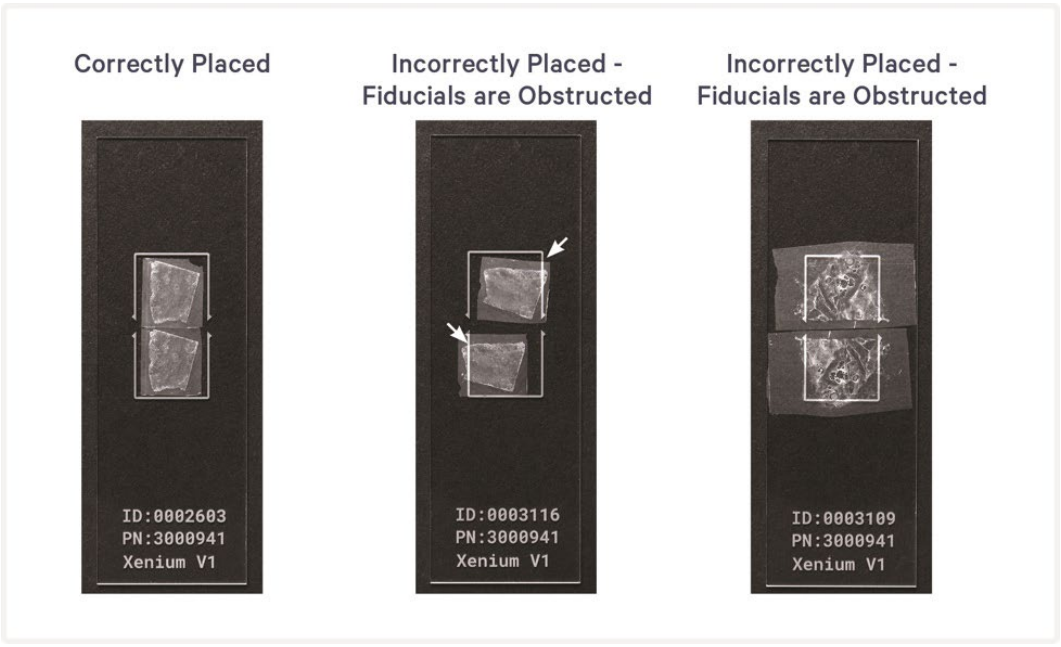
Farzaneh Aboualizadeh
For 10X Xenium inquiries,
(416) 581-7439
Farzaneh.Aboualizadeh@uhn.ca

Dr. Troy Ketela, Head of Operations
For new project inquires,
(416) 634-8816
Geneservice@pmgenomics.ca

- Transport slides at room temperature.
- Slides need to be processed within 2 weeks so please ensure that you schedule sample submission before mounting tissue sections on slides.

Please refer to FFPE Tissue Preparation Guideline for details on how to prepare tissue sections.





Farzaneh Aboualizadeh
For 10X Xenium inquiries,
(416) 581-7439
Farzaneh.Aboualizadeh@uhn.ca

Dr. Troy Ketela, Head of Operations
For new project inquires,
(416) 634-8816
Geneservice@pmgenomics.ca