A. **Purpose:** To provide a simple graphic guide for the naming conventions used for derivatives created after tumors are excised from PDX bearing mice.

B. **Scope:** The naming conventions shown in this document can be used to physically label all derivatives and to update the inventory database, OpenSpecimen.

C. **Definitions:**

Derivatives: Any specimen type (including mice) created from an excised tumor

FFPE: Formalin-Fixed Paraffin-Embedded

OpenSpecimen (OS): Inventory database, https://www.openspecimen.org/

Restart: Each time tissue from an established PDX model is taken from viably frozen conditions and implanted into mice to produce the next series of transplant generations. For example, PDX tissue thawed from BCM-2147-TG3 would become BCM-2147-R1TG4 upon transplantation

TG: Transplant generation

Transplant generation: The number of times that PDX tissue has been transplanted from mouse to mouse with the purpose of maintaining an actively growing PDX model

D. **Materials and Reagents:** NA

E. **References:**

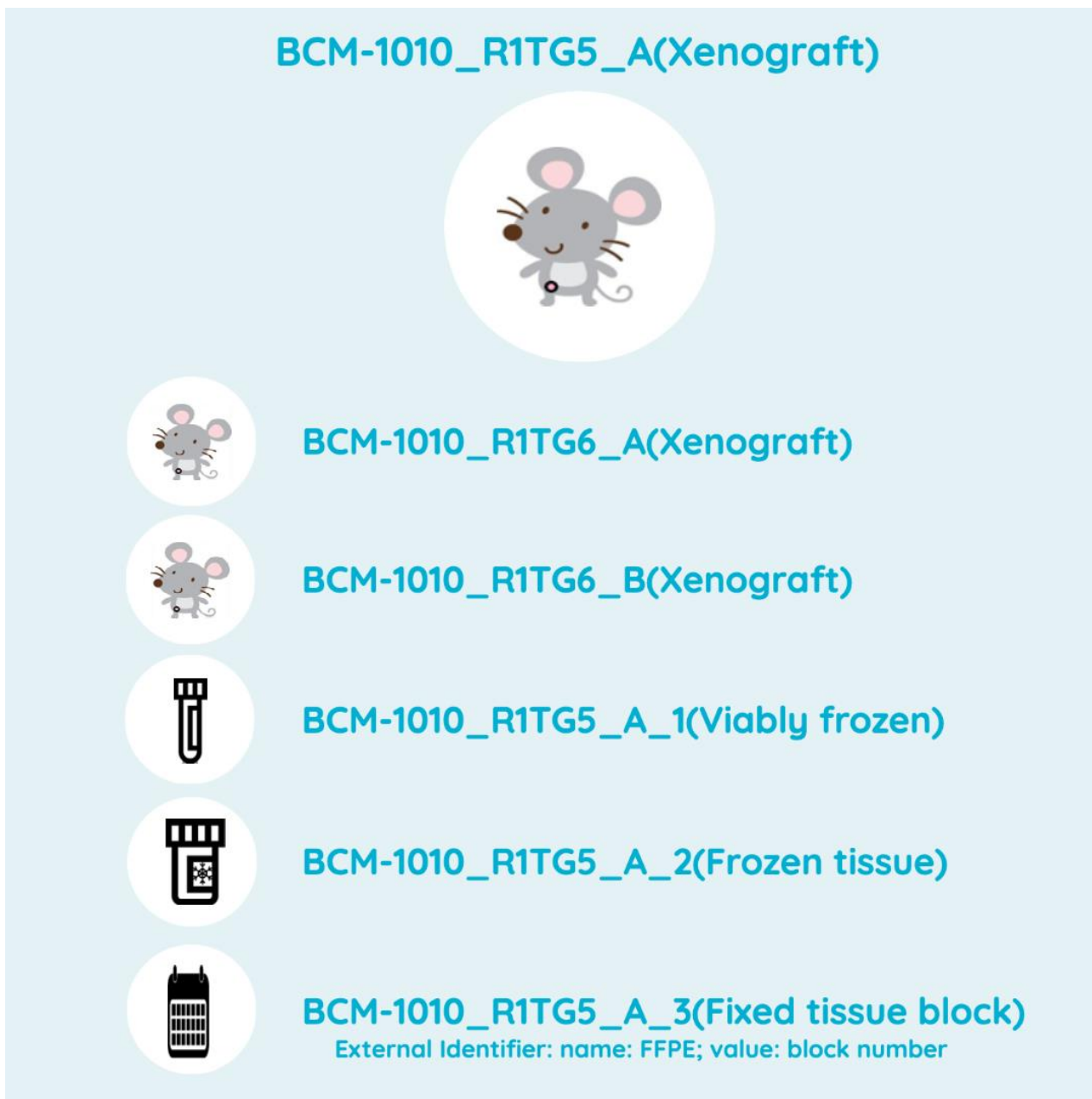SOP_MTL-1.4 Tumor Tissue Excision for PDX Maintenance
SOP_MTL-1.20 OpenSpecimen Inventory Update

F. **Procedures:**
General considerations: During tumor excision (SOP_MTL-1.4 Tumor Tissue Excision for PDX Maintenance) derivatives are annotated in the harvest sheet, that is later used to update the OS inventory.

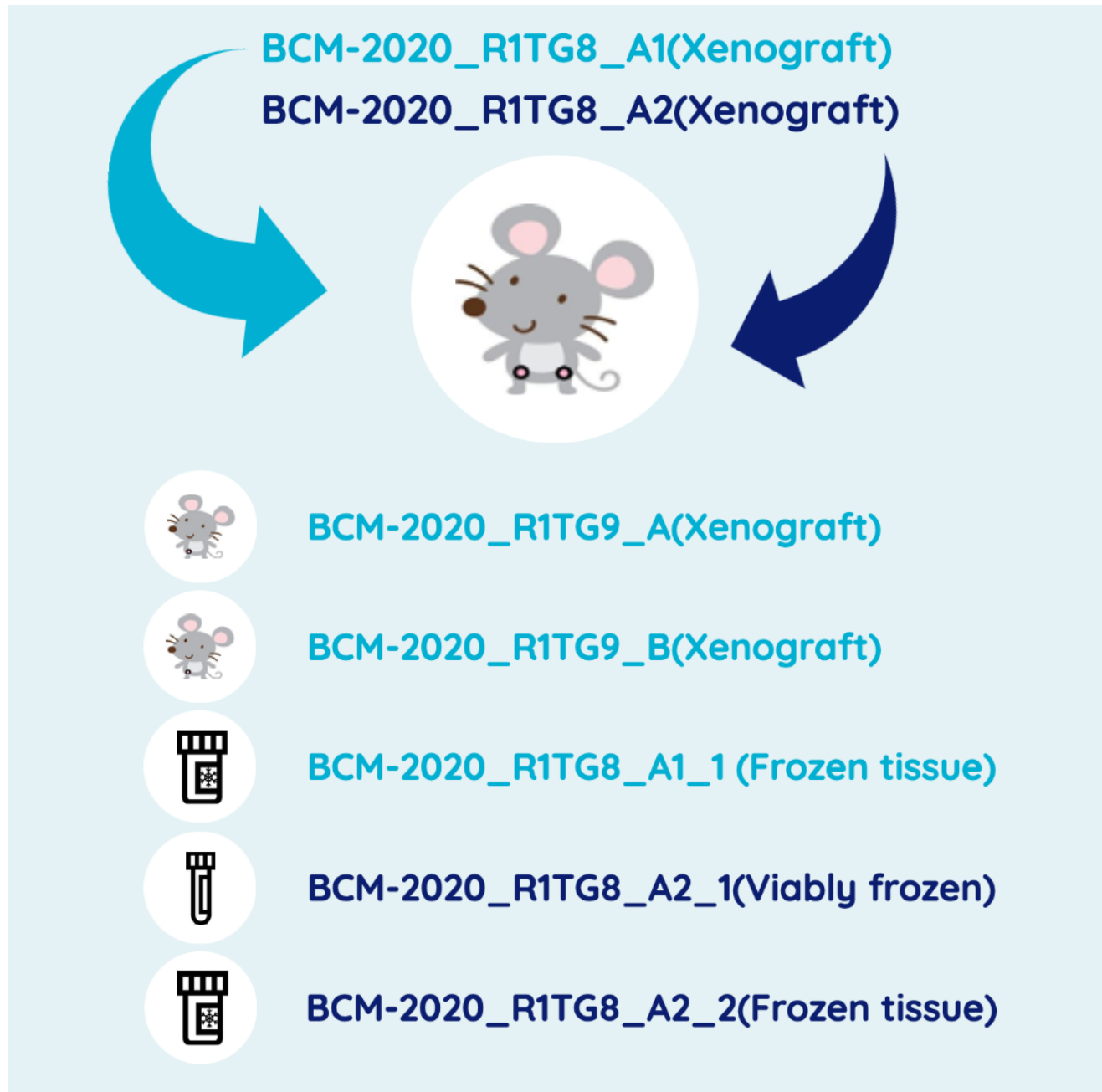SOP_MTL-1.10 Naming Conventions

1.   Naming conventions for derivatives created from tumor excised of single-sided tumor bearing mice:

BCM-1010_R1TG5_A(Xenograft)

BCM-1010_R1TG6_A(Xenograft)

BCM-1010_R1TG6_B(Xenograft)

BCM-1010_R1TG5_A_1(Viably frozen)

BCM-1010_R1TG5_A_2(Frozen tissue)

BCM-1010_R1TG5_A_3(Fixed tissue block)
External Identifier: name: FFPE; value: block number

2.   Naming conventions for derivatives created from tumors excised of double-sided tumor bearing mice going into single sided next generation:

BCM-2020_R1TG8_A1(Xenograft)
BCM-2020_R1TG8_A2(Xenograft)

BCM-2020_R1TG9_A(Xenograft)

BCM-2020_R1TG9_B(Xenograft)

BCM-2020_R1TG8_A1_1 (Frozen tissue)

BCM-2020_R1TG8_A2_1(Viably frozen)

BCM-2020_R1TG8_A2_2(Frozen tissue)

G. Revisions log:

Version	Revision Date	Section Revised	Notes
1	10.19.2021	All	SOP created
2	04.29.2022	All	Reviewed
3	06.10.2022	H	Specimen's name examples from Mouse A updated
4	06.01.2023	H	LDEV specimen's name updated

H. Appendix:

Date Harvested _____ 09/23/20 _____   Harvested By _____ Lacey Dobrolecki _____

		PDX	TG	Transplanted	Transplant Chunks
		4664	R3TG4	07/28/20	10

Mouse	FFPE Block	Snap Frozen	STR	LDEV (spleen)	Snap Location	Viable	Viable Location	Blood	Other Collaborators	Tumor Size
A	2300	2	1	1	(List -80°C storage location)	7	(List deep freeze storage location)	John		10.2x9.8
B	2301	2				7		Hari		9.7x8.9
C	2302	1				10			Tissue to Fuqua Lab	9.5x9.2

☐ Data entered into OpenSpecimen

Specimen's name examples from Mouse A:

BCM-4664_R3TG4_A_1 (Fixed tissue block, external ID: 2300)

BCM-4664_R3TG4_A_2 (Frozen tissue)

BCM-4664_R3TG4_A_3 (Frozen tissue)

BCM-4664_R3TG4_A_4 (Frozen tissue; comments: STR)

BCM-4664_R3TG4_A_LDEV (Frozen tissue; comments: spleen LDEV)

BCM-4664_R3TG4_A_5-12(Viably frozen)

H.1 Harvest sheet.