

PRECAMA biobank

■ *Biological specimens:*

- ✓ 20 aliquots of 0.2 ml of plasma
- ✓ 20 aliquots of 0.2 ml of serum
- ✓ 6 aliquots of 0.2 ml of RBC
- ✓ 6 aliquots of 0.2 ml of buffy coat
- ✓ 10 aliquots of 1 ml of spot urine

Mirror half of the aliquots stored locally, half stored centrally at IARC

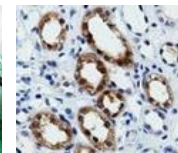
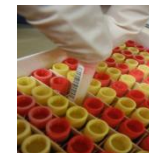
■ *Tumor tissues (FFPE):*

- ✓ 13 4μm-cuts for IHC and H&E, 9 to be shipped to FHCRC, 4 to be kept on site
- ✓ 6μm-cuts for DNA extraction to be sent to FHCRC:
 - a. if < 0.5 cm cut 9 sections
 - b. if > 0.5 cm and
 - c. if > 1.0 cm cut 3 sections

International Agency for Research on Cancer



✓ **Extracted DNA stored at IARC (-20C)**



IARC Biobank (<http://ibb.iarc.fr/>)

- one of the largest, most varied and richest International collections of samples in the world
- hosts over 50 different studies, led or coordinated by IARC scientists
- 5.1 million biological samples from 562,000 individuals.
- 4 million of the samples are from the EPIC study



LN2



-80C
-40C
-20C



Room temperature
Tissues, hair, nails..

PRECAMA

available measurements

- ✓ **Centralized IHC on 228 cases**
- ✓ **Proofs of principle**
 - Fatty acids and inflammatory factors on 140 cases/controls
 - Blood DNA extracted from 126 cases
 - Targeted deep sequencing of a panel of 8 genes frequently mutated in BC (AKT1, CDH1, ERBB2, NOTCH1, PIK3CA, PTEN, RB1, TP53) on 126 cases
 - Whole-exome sequencing on 12 tumor samples

