**Akoya PhenoCycler-Fusion 2.0 Multiplexing Spatial Biology Solution**

Multi shared equipment room A4-112 hosts the Akoya PhenoCycler-Fusion 2.0 Multiplexing Spatial Biology Solution

PCF2 is the fastest spatial biology platform that combines automated fluidics with high-speed imaging to generate high-resolution images of multiple biomarkers (100+ phenotypes) on tissue sections (multiple tissues per slide, 2 flow cell chambers for 2 slides on the specimen holder).

* Iterative Cycling and Imaging: Staining the tissues in a single-step and iteratively cycling and imaging fluorescently labeled antibodies across the tissue through a reveal-image-remove cycle.
* Oligonucleotide Barcode Technology: Each antibody is tagged with a unique oligonucleotide barcode, enabling PCF2 to seamlessly scale the number of biomarkers identified and quantified across the same tissue section.
* Multi-slide automation with parallel fluidics and imaging: By automating and parallelizing the fluidics and imaging process, PCF2 generates high-resolution images of multiple samples and panels simultaneously, significantly reducing the time to complete experiments.
* 350+ Antibodies. 100+ plex Phenotypes. 30+ Tissue Types. 30+ cycles/run.
* Select 3 of four Reporters: Atto550 or AF488, AF647 and AF 750. Three channel fluorescence imaging and common cell nucleus DAPI per each cycle.
* Revolutionary QPTIFF file format, seamlessly integrates into free Akoya software solutions (Phenochart, InForm, and Phenoptr & PhenoptrReports), 5 software partner platforms, and open-source solutions (QuPath).
* Also run as auto scanner of 6-plex Opal dyes (480, 520, 570, 620, 690 and 780) stained full tissue images of 4 slides using 20X/0.8 objective.
* Also run as auto scanner of Bright Field full tissue images of 4 slides using 20X/0.8 objective.