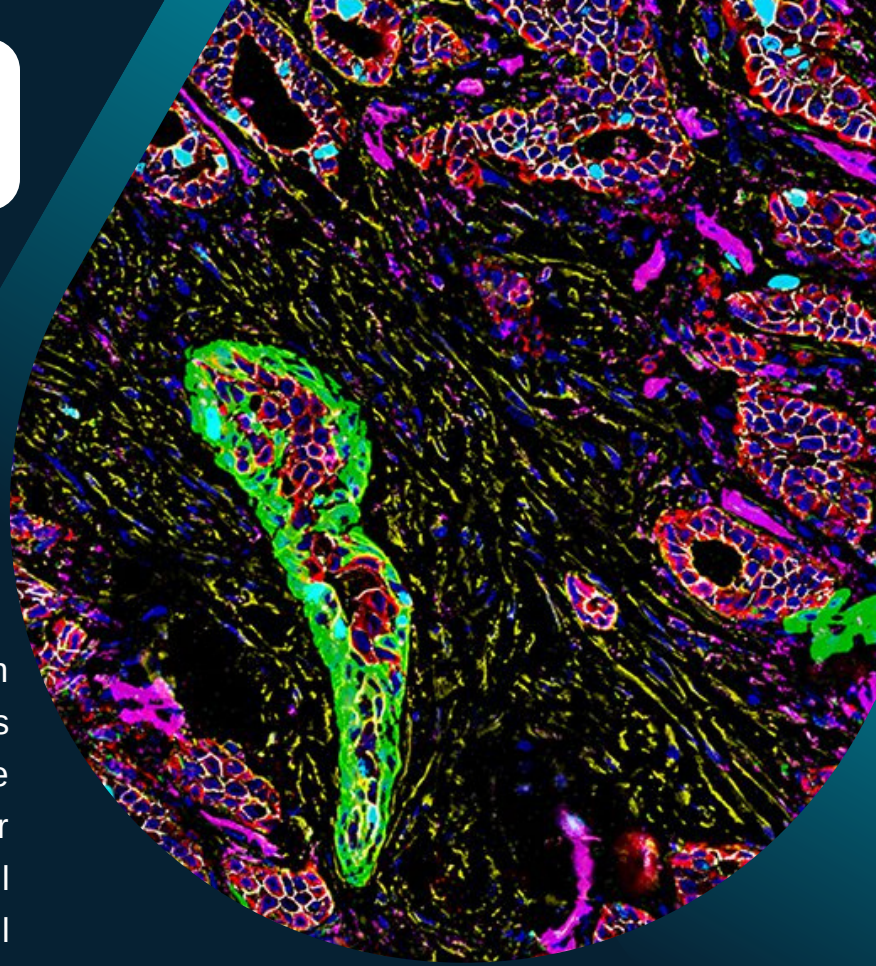


STEP Multiplex Tissue Imaging

SERVICE PACKAGE



Westmead Imaging can coordinate with Akoya Bioscience to offer researchers a STEP multiplex imaging package acquired using the PhenoCycler platform that allows for spatial phenotyping of ultra-plex at single cell resolution.

WORKFLOW Spatial Tissue Exploration Program (STEP)

Westmead Imaging Facility



**Coordination with Westmead
Histology, QC of slide, & shipping**

Service by Akoya Bioscience



**Consultation &
qualification**

**STEP imaging &
data generation**

**Data review &
analysis training**

INCLUSIONS:

- Sample sectioning service
- Special coverslips for sample preparation
- Sample shipment to Akoya in US (packing, carriage, duties, fuel etc)
- Project consultation
- Labour and consumables
- Instrument operation
- Data review and analysis training

CONTACT US

THE WESTMEAD INSTITUTE FOR MEDICAL RESEARCH
176 HAWKESBURY ROAD, WESTMEAD, 2145

P: (02) 8627 3211

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www.westmead.org.au

Spatial Tissue Exploration Program (STEP)

STEP offers

- Comprehensive immune profiling: lineage, cell state, checkpoints etc
- Immune profiling panels specific to breast cancer & neuroimmune
- Human FFPE and mouse FF
- Full customisation
- Custom analysis service

Deliverables

- Processed data (Qupath Tiff output)
- Antibody performance and QC
- Quantifiable cell phenotypes and analysis training

23 PLEX

Core (15)

-CD4
-CD68
-CD20
-CD11c
-CD8
-HLA-DR
-CD3e
-CD44
-CD45
-HLA-A
-CD14
-Ki67
-Pan-CK
-CD57
-CD45RO

Breast cancer (8)

-Tp63
-Keratin 5
-Keratin 8
-Keratin 14
-Keratin 19
-ER
-PR
-HER2

27 PLEX

Core (15)

-CD4
-CD68
-CD20
-CD11c
-CD8
-HLA-DR
-CD3e
-CD44
-CD45
-HLA-A
-CD14
-Ki67
-Pan-CK
-CD57
-CD45RO

Advanced immune (6)

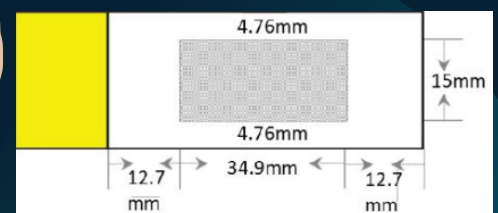
-CD163
-CD19
-FoxP3
-Granzyme B
-CD11b
-CD21

Immune activation (6)

-PD-1
-LAG-3
-TIM3
-ICOS
-PD-L1
-IDO1

IMPORTANT: FFPE PREPARATION

- 1 Sample preparation on Akoya provided coverslips.
- 2 FFPE section thickness ranges 5-10um.
- 3 Tissue will be placed in the centre of the slide.
- 4 TMAs can be placed in the imaging area.
- 5 Tissue under the adhesive portion of the flow cells will affect bonding and likely fail. This could result in a leaking flow cells and hence loss of the tissue slide.



FFPE TISSUE PLACEMENT GUIDE