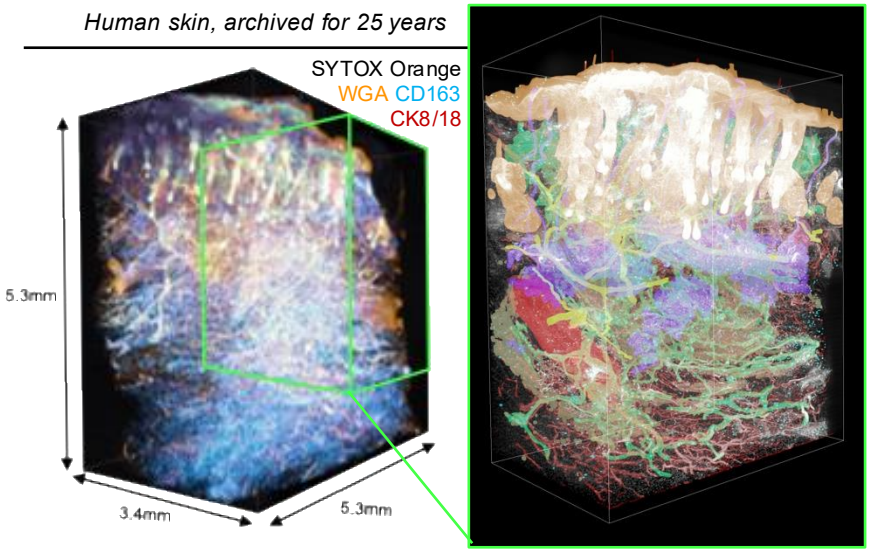
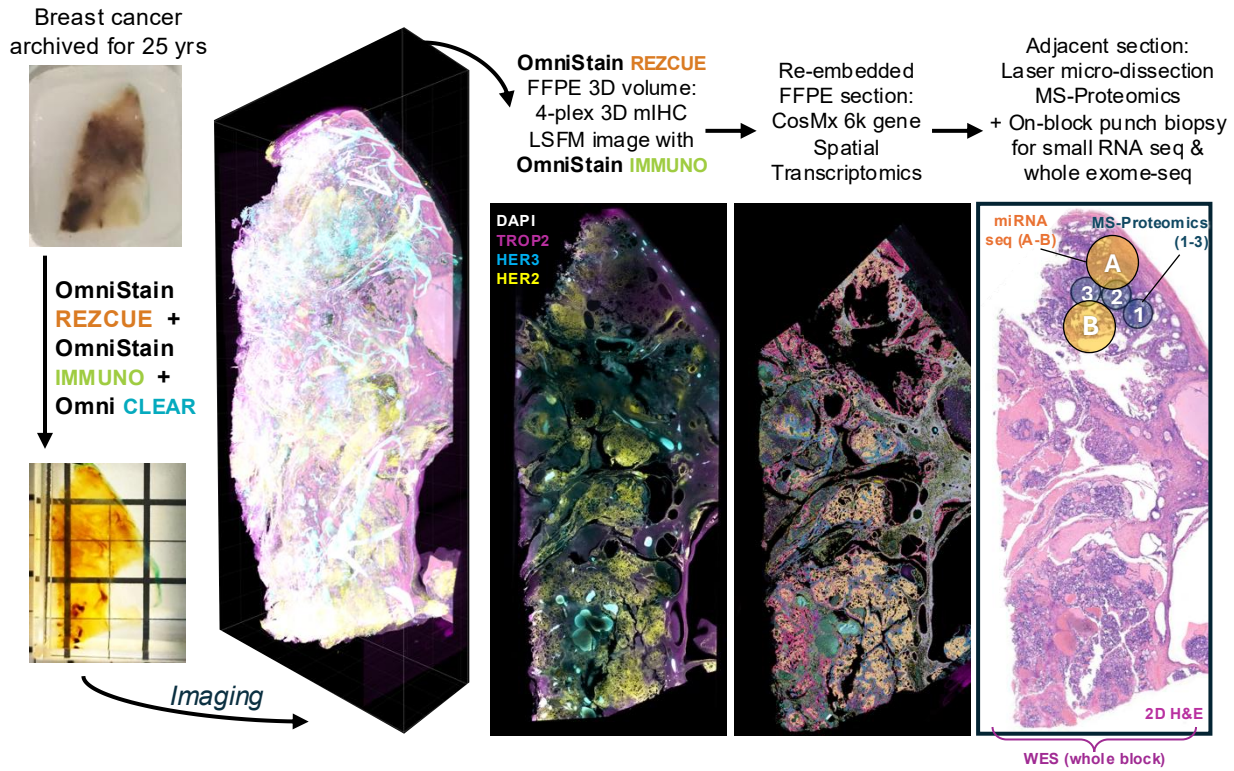
OmniStain REZCUE is an **antigen retrieval** method preparing **FFPE tissue** for **3D multiplexed staining**

Formalin-fixed, paraffin-embedded (FFPE) tissues require antigen retrieval to expose antigens.

OmniStain REZCUE helps recover FFPE samples for deeply penetrating 3D staining using **OmniStain IMMUNO** or **OmniStain H&E**.



The patented chemistries of **OmniStain REZCUE** and **OmniStain IMMUNO** or **H&E** do not cause further biomolecule degradation. If the FFPE sample was well-preserved**, downstream spatial transcriptomics, spatial proteomics, RNA- and DNA sequencing are all possible.**



Find out more at www.illumos.co,
or contact us at sales@illumos.co

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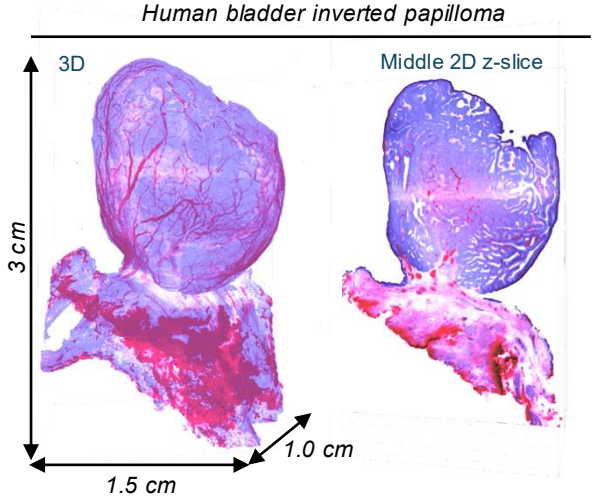
OmniStain H&E is an **ultrafast 3D H&E-like staining** kit for centimeter-scale human samples.

Designed for **fast, deep, uniform penetration without damaging tissue biomolecules.**

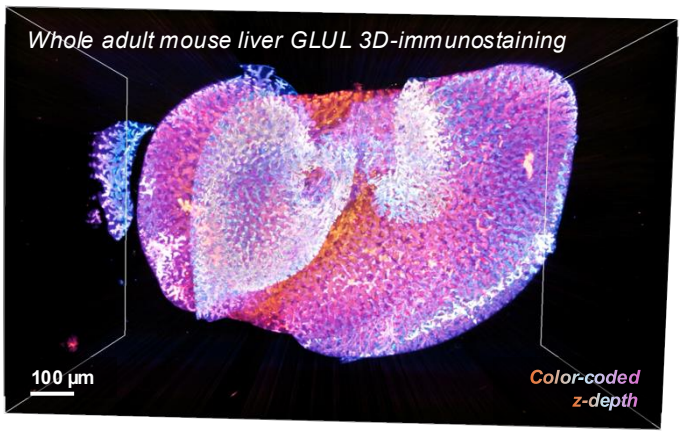
<24 hours, from fresh formalin-fixed tissue to completing clearing.

Applicable to mouse and **human tissues**, up to **3 cm x 2 cm x 4 mm**.



- Compatible with FFPE tissues when combined with **OmniStain REZCUE**.
- Can combine with **OmniStain IMMUNO** to for both 3D H&E and 3D multiplexed immunostaining.

OmniStain IMMUNO is an **ultrafast 3D multiplexed immunostaining** kit for centimeter-scale tissues.



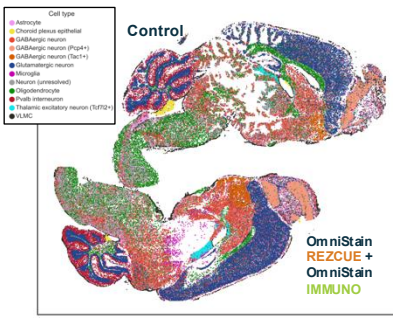
An upgrade from the INSIHGT method.
(Yau, *et al. Nat Commun* **15**, 10888 (2024).)

Deep, uniform antibody penetration in 9 days.

Quantitatively preserves DNA, RNA, proteins and post-translational modifications at the omics level.

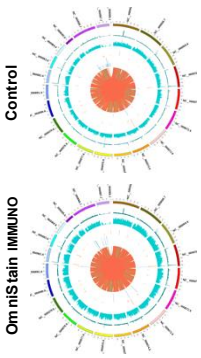
Omics-level validation of OmniStain IMMUNO reversibility: one half of mouse brain is processed with OmniStain IMMUNO, while the other half served as non-treated control

Spatial Transcriptomics



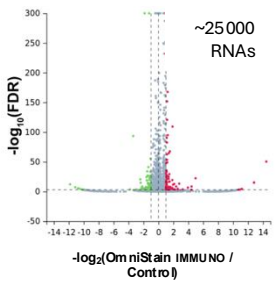
No significant change in spatial transcriptomics cell-type detection.

Whole Genome Seq



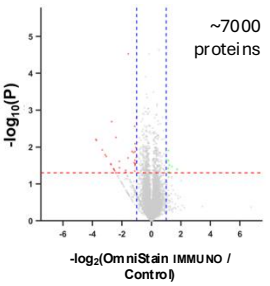
Does not affect whole genome seq quality.

Bulk Transcriptome RNA-Seq



No differentially detected RNAs.

Spatial MS-Proteomics



No differentially detected proteins.