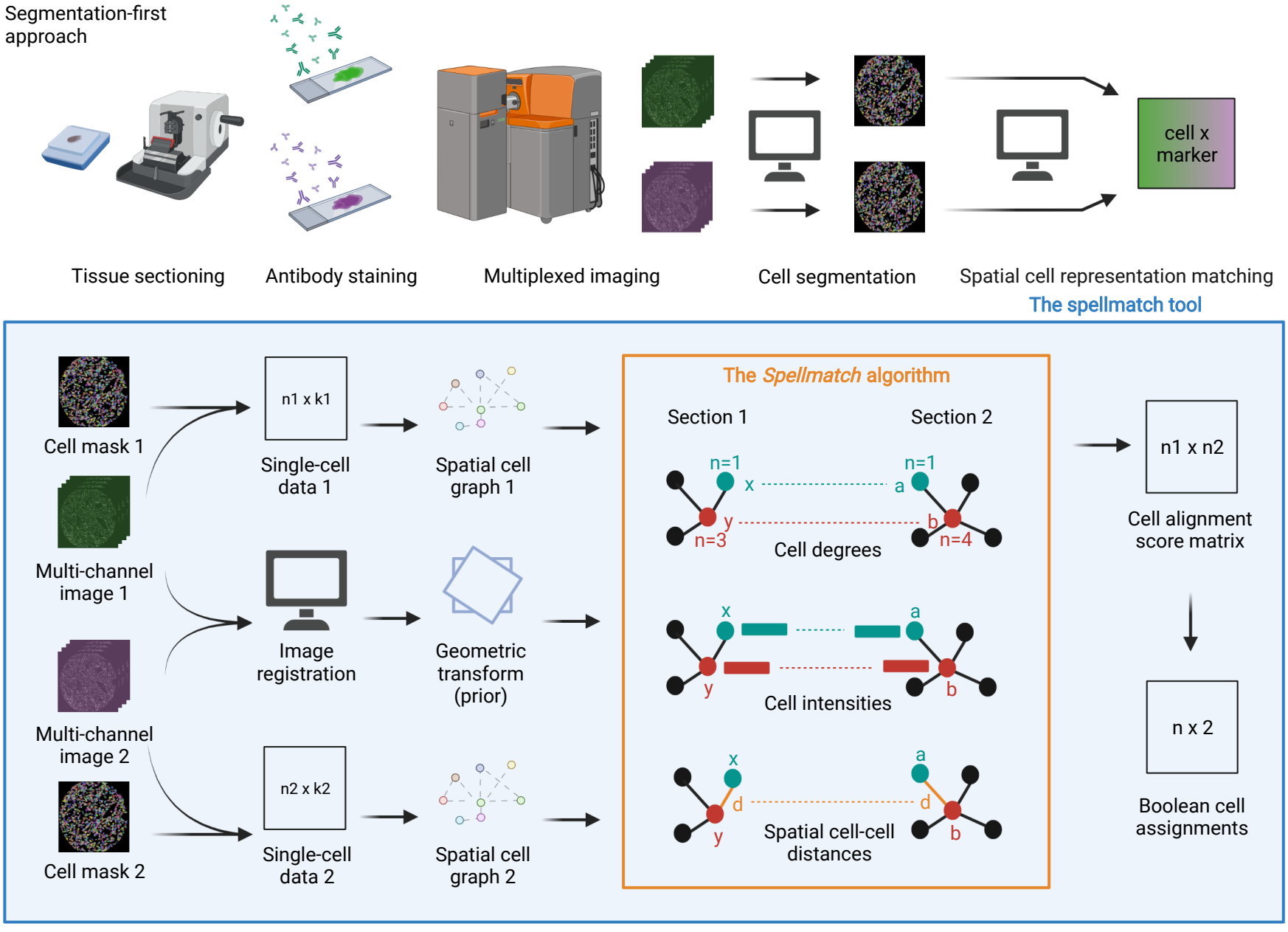
Segmentation-first approach
Tissue sectioning
Antibody staining
Multiplexed imaging
Cell segmentation
Spatial cell representation matching
cell x marker
The spellmatch tool
Cell mask 1
Multi-channel image 1
Multi-channel image 2
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Single-cell data 1
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Spatial cell graph 1
Geometric transform (prior)
Spatial cell graph 2
The Spellmatch algorithm
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Section 2
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n=3
n=4
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Cell intensities
Spatial cell-cell distances
n1 x n2
Cell alignment score matrix
n x 2
Boolean cell assignments