FACT SHEET

SLIDEMATCH

ADVANTAGES

» **Correlation of signals from differently stained brightfield sections**
Users can colocalize information from differently stained IHC sections, thus matching or even exceeding the capabilities of multi-channel immunofluorescence analysis while avoiding any antibody cross reactions.
» **Improvement of the score quality**
Using the spatial combination of two sections users can e.g. correlate HER2 protein expression (coming from an IHC section) with HER2 gene amplification (coming from an ISH section) to improve the diagnosis on corner cases.
» **Transfer of masks and annotations from one section to another**
Tumor regions can be detected in e.g. H&E or PCK sections and transferred to IHC sections, where analysis can be restricted to these regions only.
» **Speed-up of score computation**
If a score is based on a combination of the positive cell counts on various IHC sections in the same region of interest, defining the same region multiple times can be avoided.

INPUT

» Basic image file formats (.jpg, .tif) and whole slide image formats (3DHISTECH, Aperio, Hamamatsu, Huron, Leica, Nikon, Olympus, Perkin-Elmer, Roche-Ventana, TissueGnostics, Zeiss)

OUTPUT

» Aligned stack of pyramidal whole slide images (.ims, .svs, .tif) on any magnification, e.g. 1x to 40x

SEPARATION AND INITIALIZATION

» Automatic detection and separation of multiple histology sections on virtual slides
» Automatic ordering of multiple sections on a slide
» Automatic coarse alignment of separated sections using image registration
» Manual correction of image alignment if required

BATCH PROCESSING

» Batch processing of multiple tissue specimen
» Automatic high-resolution alignment
» Patented hierarchical registration technology with
  › Higher accuracy: 5x (competitors) vs. 40x (Slidematch)
  › Increased robustness to tissue aberrations
  › Only “soft” consecutiveness required
» Alignment of very large images (≥500 GB per slide) without special hardware requirements

SYSTEM REQUIREMENTS

» Windows® 7 (SP1), 8, or 10 (64 bit versions only)
» 4GB RAM minimum, 8GB RAM recommended
» Intel® Core™ i7 processor or comparable
» Graphics card with support for OpenGL® 2.1 or later

Scan this QR code to obtain additional information and request a **free trial** version of Slidematch.

https://micro-dimensions.com/slidematch

Rupert-Mayer-Str. 44, 81379 München, Germany +49 89 1894253 30 sales@micro-dimensions.com

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