

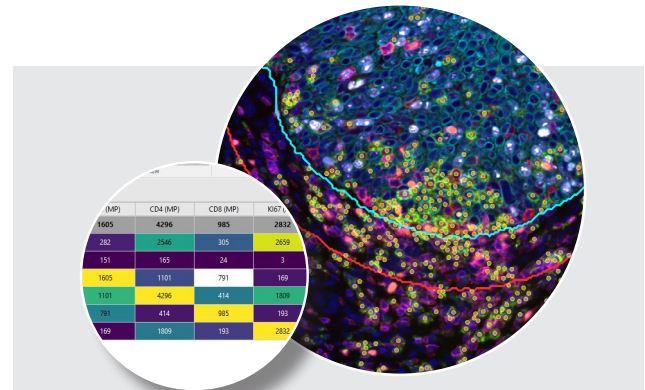
Phenoplex™

Guided Workflow – Apply your scientific expertise to obtain single-cell phenotypes

Understanding the cellularity of multiplexed tissue is the critical first step to deeper spatial quantification.

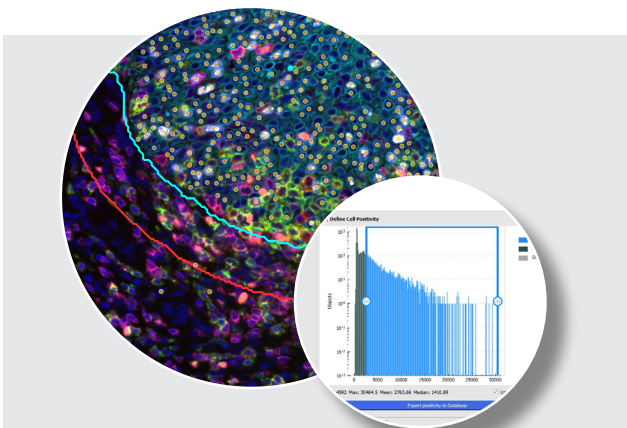
Classifying cells into phenotypes is typically done by biomarker expression. Unsupervised methods rapidly generate data, but rarely allow the expert biologist to influence or provide the feedback necessary to check the results.

Phenoplex's guided phenotyping, on the other hand, works with the biologist to assess each biomarker within the multiplex images using a variety of cooperative tools at each decision point.



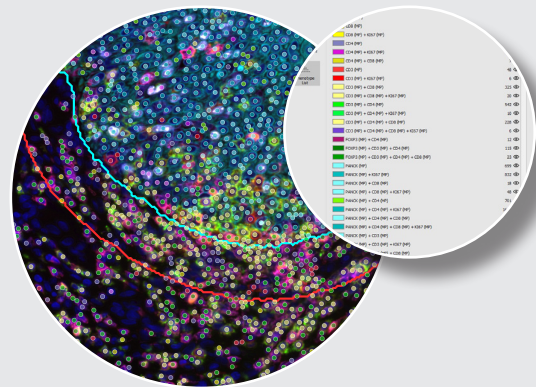
VERIFY

Confirm positivity settings using the **Co-occurrence Matrix** to check for co-localization of biomarkers. Numbers in the matrix are the total number of cells positive for the combination. Selecting a box in the matrix will highlight the dual positive cells in the image.



PHENOTYPE

The histogram in **Guided Phenotyping** displays the biomarker expression levels of every cell in the image set so you can visually determine optimal positivity levels in both the graph and the image.



The Phenotype List shows the newly identified cell populations, which are uniquely color-coded. Each phenotype has been counted and has individual display controls to create the imagery you need for publication. Phenoplex's interactive data exploration tools enable you to explore your results using t-SNE, scatterplots and boxplot visualizations to trust your results.



VISUALIZE



CLASSIFY TISSUE



DETECT CELLS



PHENOTYPE



VERIFY



EXPLORE



PUBLISH



The guided Phenoplex workflow effectively manages all the steps OracleBio requires for phenotype generation on high-plex images. It's a great tool for interactively establishing thresholds across multiple markers within defined cell objects, which was previously difficult when performing complex multiplex analysis.

Alison Bigley, Principal Scientist at OracleBio Limited

Phenoplex™

Multiplex users deserve analysis software designed for multiplex images. Phenoplex is a complete workflow software for multiplex tissue images, built on Visiopharm's best-in-class AI, with interactive verification steps throughout. Make new discoveries, compare between cohorts, or reproduce previous results. Phenoplex's comprehensive workflow lets you rapidly confirm observations, no matter the 'plex level, so you can move on to the next multiplex experiment.

Visiopharm

We are a leading provider of AI-driven precision pathology software for research and diagnostics.

In research, we are a technology leader providing tools that help scientists, pathologists, and image analysis experts produce accurate data for all types of tissue-based research.

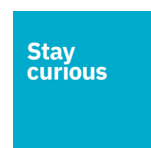
In diagnostics, we are a leader within clinical applications, with no less than eight diagnostic algorithms cleared under IVDR for EU/UK customers. These applications provide diagnostic decision support and can be easily activated and integrated into existing lab workflows.

Founded in 2002, we are privately owned and operate internationally with over 750 customer accounts in more than 40 countries. Our headquarters are located in Denmark's Medicon Valley, with offices in Sweden, the UK, Germany, the Netherlands, and the United States, and local representation in France and China.



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Not for use in diagnostic procedures.



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