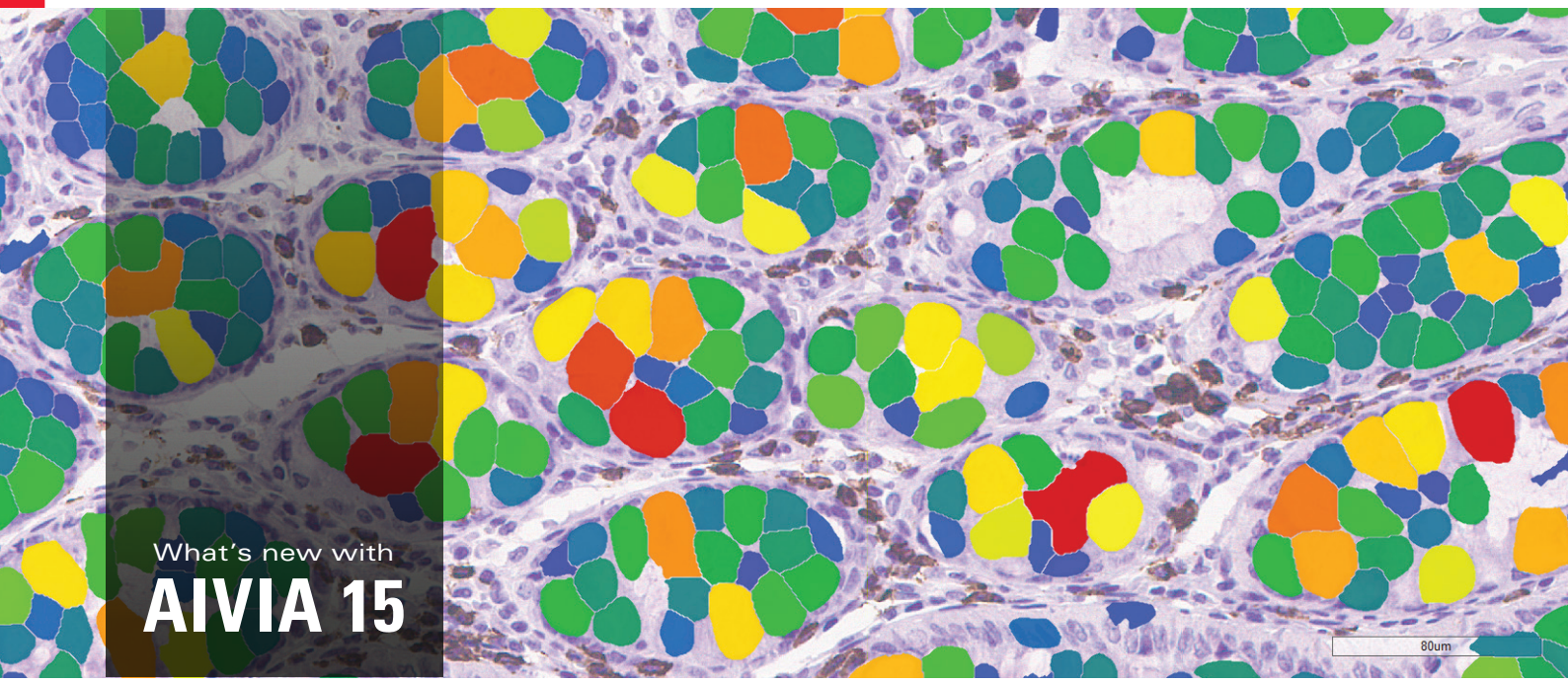
From Eye to Insight



Human colon goblet cells, colored by area. Image credit: ab109218 CD6 human colon.tiff Will Howat Ph.D. from Abcam, image analysis performed using the 'Segment by Example' tool in Aivia 15, an AI-powered analysis software, by Won Yung Choi, Ph.D. of Leica Microsystems.

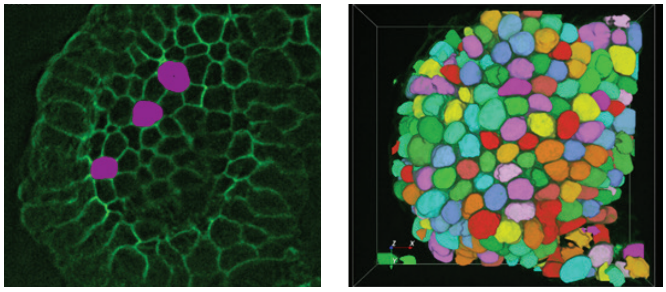
GET TO YOUR INSIGHTS FASTER AND EASIER WITH AI-POWERED TOOLS

Segment by Example

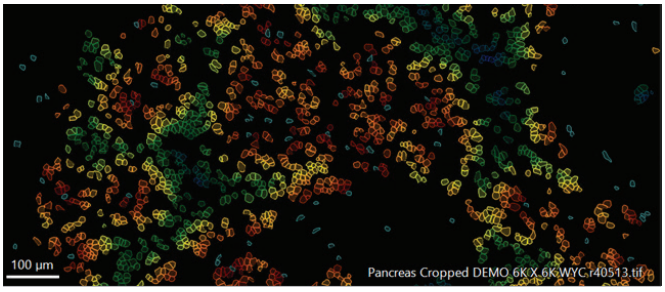
- Achieve accurate 2D & 3D segmentation without coding
- Generate quantitative insights by painting sample cells for deep learning-based detection
- Analyze complex samples with high accuracy, even in 3D

Faster 3D insights and powerful batch tools

- Accelerate your 3D insights by up to 69% with faster 3D mesh creation and smoothing
- Quickly batch process segmentation, classification, and spatial analysis with the new Workflow Creator
- Generate insights about object-based colocalization and nearest neighbor analysis



(Left) Example of painted cells. (Right) Painting on 5 cells on a single Z-plane can produce complete 3D meshes using Segment by Example. Image credit: Intestine organoid by Andreas Moor, Ph.D. at ETH Zurich, analyzed using Segment by Example by Won Yung Choi, Ph.D. of Leica Microsystems.

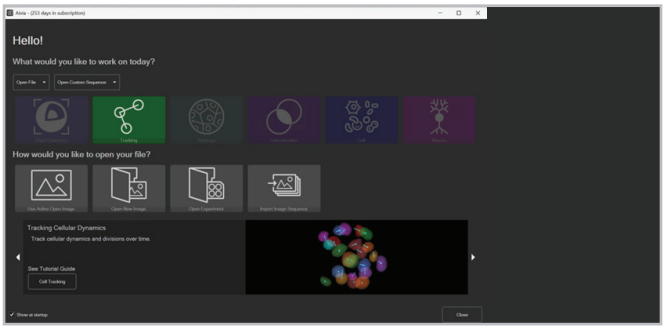


An example of the heat map of the nearest neighbor between Cluster 3 (cyan cells) to Cluster 12 (rainbow heatmap) with the nearest cells in red, the furthest cells in blue.

NO CODING OR AI EXPERTISE NEEDED

Optimized analysis with Aivia Launchpad

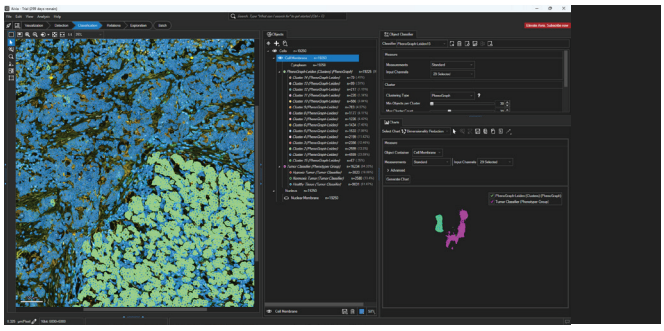
- Launch the right quantitative analysis with pre-set Guided Sequences and tutorials based to your image type and research goals
- Customize your analysis with Flexible Chevrons that can be modified, saved, reloaded, and shared



Aivia Launchpad helps users to get started on the target analysis with a Tutorial Guide and by launching the pre-set Guided Sequence for the analysis workflow.

Effortless data exploration for deeper insights

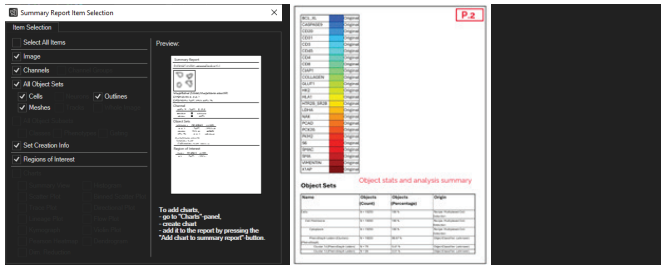
- Use Measurement Selector to quickly navigate through different measurements for charting
- Gain insights from large datapoints with new heatmap binned scatterplot
- Easily phenotype by gating based on measurement or directly on the charts



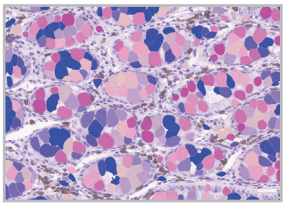
Gating for cells using UMAP dimensionality reduction for supervised classification.

Do more with your results

- Automatically generate a summary report with image metadata, analysis steps, and charts to rapidly share your findings
- Prepare report in multiple formats including .html, .docx, and .md
- Export phenotypes to Leica's Laser Microdissection microscope for further analysis



Example of an automatically generated summary report with an option for users to add or remove any content.



Additional tools for discovery

- Supporting active collaboration with the scientific open-source community, we now offer drag-and-drop import of 26 Bioimage.io models directly into Aivia's Recipe Console
- Open files from virtual slide scanners (Aperio .svs, Hamamatsu .ndpi/.vms, Mirax .mrxs, and Phillips .tiff) and Akoya .qptiff for spatial biology analysis and interactive exploration of multiplexed data

Get Aivia! Scan the QR code to request a free trial

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