Access the future of AI microscopy

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Abstract

Join us for an exciting workshop to explore the latest version of Aivia, an AI-based software for microscopy image analysis from Leica.

The latest version of Aivia includes several new features that are designed to improve accuracy, streamline workflows, and enhance data exploration.

One of the key features of the latest version of Aivia is *Deep Learning-based Soma Detection for Dense Neuronal images*. This feature improves soma detection accuracy for dense neuronal images, making it more accurate and easier to analyze complex neural networks.

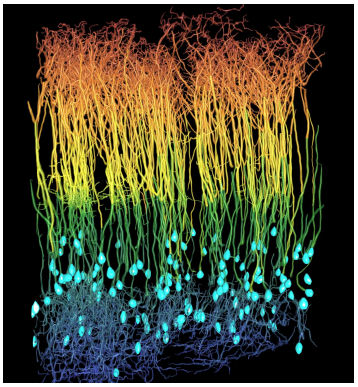
Another important feature is *Machine-Learning Based Golgi-Stained Neuron Tracing*, which leverages on expert user's training of the software to automatically trace Golgi-stained neurons for downstream morphological characterization. This includes dendritic branching analysis via 3D Sholl analysis, and 3D spatial analysis between neurons and other structures of interest.

In addition, we have improved our *AI-Based Parameter Estimation for Aivia That Learns (ATL)*. Our model now generalizes to a greater variety of images to yield an accurate parameter set for 3D object analysis. We will show additional easy to use deep learning models that make artificial intelligence accessible to all.

The latest version of Aivia also includes *Improved Data Exploration Capabilities*, including new charting tools that allow for more comprehensive data visualization and analysis.

Do not miss this opportunity to learn more about the new features of Aivia and how they can help you streamline your microscopy image analysis workflows.

Register for the workshop today!



Mouse brain cortex, Thy1-eYPT. IRAPO 25 x 1.0 W motCorr.

Sample courtesy of Kevin Keppler, Light Microscope Facility, DZNE Bonn (Germany)

Data analyzed using the Pixel Classifier to enhance the neuronal features and reconstructed using 3D Neuron Analysis – FL in Aivia.