Letting Pathologists Harness the Power of AI

Technology leader in deep learning and image analysis for digital pathology

Image analysis has become increasingly important in digital pathology, for identifying tissue structures and quantifying biomarker expression. The Visiopharm AI module allow pathologists to solve even the most complex and challenging image analysis applications with a simple teach-by-example approach.

Oncotopix/Biotopix® AI comprise the most comprehensive solution for digital pathology available today, implementing the latest technical breakthroughs in deep learning.

Deep learning has proven to be the technological quantum leap in image analysis, that successfully address even the most complex tissue structures; without compromising ease of use and training.

Providing almost infinite configurability, this solution allow scientists to grow and evolve with their research without hitting the wall of software limitations.

- Al made easy in three intuitive steps
- Conquer complex tissue challenges
- Achieve state-of-the-art results

What customers are saying

I think that the huge benefit of Visiopharm is that you can develop your own custom algorithms a lot more efficiently than you can with other software products. The possibilities are virtually endless.

Stefan Hamann, Ph.D., Principal Scientist at the Translational Pathology Laboratory at Biogen

Visiopharm really has become a leader in these types of deep learning methods, which is really impressive.

Robert Dunstan, Bs. MS., Senior Research Fellow, AbbVie
Easy AI workflow
The fully automated AI tool is straightforward to use and illuminates the possibilities of deep learning within a streamlined image analysis workflow.

Obtain your AI results in three easy steps:
1) Annotate your objects of interest using the drawing tool. Background labels are generated automatically.
2) Train your network.
3) Run the network on all your images to review the results.

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<td>Manually annotate training data</td>
<td>Train your deep neural network</td>
<td>Run the network on all your data</td>
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A streamlined AI workflow. Requires no programming or advanced IT skills. Easily become proficient and generate highly accurate and reproducible results.

The possibilities are virtually endless
The teach-by-example AI implementation makes it possible to solve any use case regardless of stain or tissue type. The underlying deep convolutional neural networks (CNNs) are simply taught how to recognize any objects or regions of interest. Identify cell types, tumor regions, glomeruli, brain regions, or any unique object or region.

Most cancer applications involve some form of cell identification and tissue compartmentalization, but manually solving this task is time-consuming and challenging for the untrained eye, which often leads to subjective results.

AI image analysis facilitates automatic cell identification and tumor/stroma separation on both H&E and IHC stained tissue sections - saving both time and staining of multiple markers.

Tumor segmentation in H&E

![Probability Map](image)
The probability map shows high probability of tumor in red.

Automatic cell identification

![AI Cell Identification](image)
Identification of different cell types based on AI.

Fully integrated software
The AI modules are fully integrated with our current software. Oncotopix® AI and Biotopix™ AI are add-on modules to our image analysis software, enabling you to develop your own custom algorithms.

Explore our AI platform for more case examples.
[visiopharm.com/ai-deeplearning](http://visiopharm.com/ai-deeplearning)