ROSEAId

HISTOCHEMISTRY & TISSUE-BASED ANALYSIS

Advancing tissue-based discovery through precision staining, imaging, and AI analytics.



OVERVIEW

Histochemistry is the study of the biochemical composition and molecular architecture of cells and tissues, revealing how diseases alter cellular function.

At ROSEAId Histochemistry, we combine traditional staining and imaging methods (H&E, IHC, multiplexed slides) with AI-based analysis to deliver quantitative, reproducible and publication-ready insights.

We provide histochemistry and immunohistochemistry services for a wide range of tissue and cell types across multiple disease animal models, with capabilities for detailed drug treatment evaluation to assess therapeutic efficacy. Our workflows are optimized for projects that include well-defined positive and negative controls for the relevant pathology condition, ensuring accurate interpretation and meaningful comparisons.

THE CHALLENGE WITH TRADITIONAL METHODS

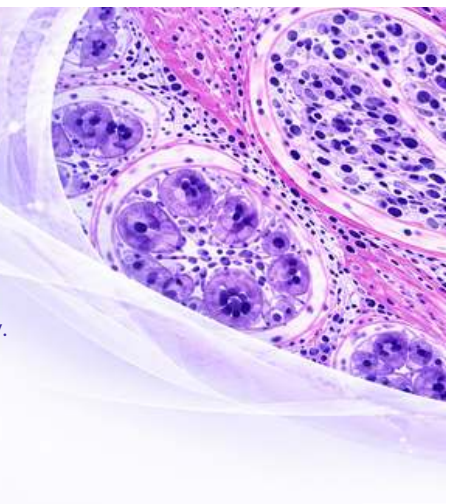
Slow & Subjective:
Traditional methods are time-consuming and prone to human error and bias.

Overwhelming Data:
Large-scale studies and complex samples are difficult to manage with conventional tools.

Inconsistent Outcomes:
Without quantitative precision, reproducibility suffers, slowing progress.

Limited Quantification:
Conventional methods lack objective, data-rich analysis for publication or regulatory validation.

OUR AI-INTEGRATED SOLUTION



01 **Automated and Quantitative:**
Automated tissue image analysis for IHC, H&E, and multiplexed slides, providing precise, quantitative data on biomarker expression, cell types, and tissue morphology.

02 **High-Throughput:**
Process large volumes of images quickly and efficiently, perfect for extensive research projects and clinical studies.

03 **Unbiased and Reproducible:**
Our AI ensures every analysis is objective and consistent, eliminating human subjectivity.

04 **Comprehensive Statistical Analysis:**
Including inter-group and inter-study comparisons, will be performed for all projects to ensure robust interpretation of results. Analyses are designed to leverage positive and negative control groups to validate staining specificity, quantify treatment effects, and confirm pathology-related changes.

SEAMLESS INTEGRATION INTO YOUR WORKFLOW

Effortless Integration:
Simply upload your scanned images and receive a complete AI-based analysis.

Custom Outputs:
Get customized reports, including statistics and publication- visuals aligned with your research goals.

Publication Support:
Assistance in selecting the best data visuals for manuscripts.

Workflow Optimization:
Supports and streamlines imaging processes for drug efficacy and histochemistry research.

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For Research Use Only. Not for use in diagnostic procedures. ROSEAId platform features and AI components are investigational and have not been cleared or approved by the U.S. Food and Drug Administration.

ROSEAId

WORKFLOW & INTEGRATION

A flexible, scalable platform that integrates seamlessly into your existing research and clinical workflows.



Seamless Compatibility:
Integrates smoothly with all major image formats, slide scanners, and laboratory information systems, ensuring easy adoption into existing histopathology and research workflows.

Flexible Access & Deployment:
Available as secure cloud-based or on-premise platforms, adaptable to the needs of academic, clinical, and pharmaceutical research environments.

Custom Reporting & Visualization:
Delivers publication-ready outputs, including graphs, visuals, and statistical summaries aligned with specific project objectives and publication standards.

Collaborative Research Environment:
Enables multi-center collaboration with transparent validation and real-time data sharing.

COMMERCIAL APPLICATIONS



Research & Discovery:
Enables high-precision histochemistry and molecular imaging for preclinical and translational studies.



Clinical Diagnostics:
Improves diagnostic reproducibility and tissue-based disease characterization.



Pharma & Biotech R&D:
Accelerates drug efficacy evaluation, biomarker validation and companion diagnostic development.



Digital Pathology & Telepathology:
Integrates seamlessly into digital workflows for remote collaboration and real-time analysis.

WHY CHOOSE ROSEAId

Fast Turnaround:
Depending on project complexity.

Secure & Scalable:
Available as cloud-based or on-premises deployments.

Data Intelligence:
AI-driven tissue image analytics deliver reproducible, unbiased, and statistically robust insights.

Broad Compatibility:
Works with all major image file formats and lab imaging systems.

Expert-Driven:
Powered by a truted partner network with proprietary AI models and deep histopathology expertise.

Translational Impact:
Supports early phase development and biomarker validation to bridge preclinical and clinical research.

CASE INSIGHTS & VALIDATION

Validated by Research
Supported by peer-reviewed studies (e.g., Efrat Eliyahu et al., PLoS ONE, 2011) demonstrating reproducible histochemical outcomes and quantitative analysis reliability.

Enables multi-center reproducibility and data comparability. Confirms reliability and scalability across diverse disease models and drug efficacy research.

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