

# DeepDx Prostate (RUO): Advanced AI for prostate biopsy analysis



DeepDx Prostate (RUO), developed by Deep Bio, is an AI-powered research tool for quantitative prostate biopsy analysis. It provides structured, scalable, and automated insights, enabling data-driven research with precision and confidence. Designed to enhance efficiency, it streamlines and optimizes laboratory workflows.



## Enhanced Efficiency

Streamlined workflows with automated Gleason grading and tissue measurements



## Standardized Grading

Reduce inter- and intra-observer variability and subjectivity



## Quantitative Insights

Leverage AI-driven analysis for consistent and reproducible research data

## Key Features

### Tumor localization and categorization:

- Gland-level identification of tumorous areas
- Gleason Pattern classification and gland-level tumor localization

### Pathologist Assistance On-Demand:

- Instant analysis of Gleason Scores
- Percentage quantification of Gleason patterns
- Automated assessment of tumor volume, tumor length and tissue length

## Use cases

Prioritizing cases for timely review

Supporting efficient case review

Ensuring real-time quality control measures

## Our Distinctive Edge

DeepDx Prostate (RUO) stands out through real-world application, processing over 700,000 core needle biopsies in the US, making it one of the most extensively vetted. Its unique gland-level analysis offers enhanced precision and accuracy over competitors. DeepDx Prostate (RUO) is designed to support research-driven analysis, enabling consistency and efficiency in prostate biopsy studies through AI-powered quantitative insights.

## Analytical Performance in Published Research

DeepDx Prostate (RUO) demonstrates reproducible results across global research datasets, delivering consistent outputs without requiring site-specific calibration.

Sensitivity <b>99%</b>	Specificity <b>97%</b>	Positive Predictive Value (PPV) <b>99%</b>	Negative Predictive Value (NPV) <b>95%</b>
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These findings, as published in peer-reviewed literature, demonstrate the robust analytical performance of DeepDx Prostate (RUO) under research conditions. It is designed to support efficient research workflows by enabling streamlined analysis and high-throughput data analysis.

### Product details

<b>Product name</b>	DeepDx Prostate (RUO)
<b>Product model &amp; code</b>	DeepDx Prostate-v1R   DXPR05-R
<b>Supported File Formats</b>	Compatible with all WSI formats supported by the Visiopharm Viewer
<b>Regulatory Compliance</b>	Research Use Only (RUO)

## Client testimonials

### Laboratory Economics

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"This tool is very helpful for quality assurance in that it enables the pathologist to re-look at areas that they did not annotate originally, but that the AI algorithm did, and determine if there are additional areas of interest that require their attention."

**Hillel Kahane, MD**  
GU Pathologist, PathNet

### The Pathologist

March 2021 Issue

"I can instantly check the results from DeepDx Prostate with a simple click of a button, sometimes revealing small areas of concern that I would have missed had I not had the tool running in the background."

**Matthew Leavitt, MD**  
Founder & Former CEO of PathNet

**Deep Bio Inc.**  
www.deepbio.co.kr  
sales@deepbio.co.kr

**Visiopharm A/S**  
www.visiopharm.com



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