

## **AIHISTONOTE : DIGITAL PATHOLOGY ANNOTATION PLATFORM FOR SMART CLINICAL ASSESSMENT**

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**Computational pathology is an emerging field. It applies the computational algorithms such as machine learning solutions to diagnose cancer and other diseases from digital pathological images. In computational pathology, it is important to mark and annotate specific areas/structures to describe the disease and then build machine learning models. Labelling digital pathological images, known as annotation, requires experienced pathologists with proper pathological training. However, the resource of the pathologists is limited. Therefore, it is difficult and expensive to obtain an extensive, systematic and structured annotation set of digital pathological images to develop accurate supervised learning models. To facilitate advances in computational pathology, AiHistoNote was developed as a cloud-based platform to enable pathologists to annotate digital pathological images. Based on this cloud-based solution, we are building an annotation dataset of prostate cancer and link annotations to ontology information for accurate AI-based pathological diagnosis. As a result, clinical validation and decision-making by pathologists can be faster, which was previously impossible. In the future, we will extend this platform to other cancer types.**