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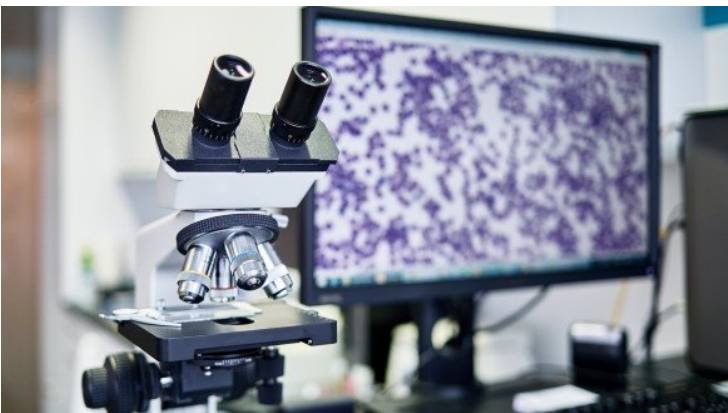
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Medprime solves manual pathology bottlenecks with launch of Cilika AI

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Modular software delivers assistive precision to labs, empowering experts with faster, scalable diagnostics



Incubated at Society for Innovation and Entrepreneurship (SINE), Indian Institute of Technology (IIT) Bombay, Medprime Technologies has announced the launch of CILIKA AI, a modular software ecosystem designed to enhance diagnostic precision through assistive intelligence.

The platform debuts with its first specialised module, CILIKA AI Retic, which automates the traditionally labor-intensive process of reticulocyte counting.

Developed as an intelligent assistant, CILIKA AI is engineered to support the pathologist's expertise. The software highlights and displays the count of candidate cells on digital images of blood samples, allowing laboratory professionals to maintain final diagnostic authority while significantly reducing manual fatigue.

Reticulocyte counts are used by clinicians as vital indicators of bone marrow activity, essential for monitoring anemia, oncology recovery, and treatment responses. However, manual counting remains a slow, subjective, and labor-intensive bottleneck for many labs.

In traditional manual microscopy, pathologists must identify and count immature red blood cells across multiple fields of view. This process is inherently subjective, leading to high inter-observer variability where different experts may produce different results for the same sample. Furthermore, the repetitive nature of manual counting causes significant visual and mental fatigue, which increases the risk of human error and overlooked cells, potentially impacting clinical decisions.

CILIKA AI Retic addresses these clinical pain points by moving from subjective manual counting to AI-assisted detection of immature red blood cells via supravital staining; processing multiple fields of view (FOVs) and generating comprehensive reports in minutes; and enabling small to mid-sized labs to perform advanced hematological analysis without the need for expensive, dedicated automated analysers.