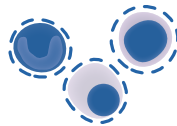# aetherAI | Hema

# Automatic Differential Count of Bone Marrow Smear

Differential count of blood cells is the basis of diagnostic hematology. In many circumstances, the identification of cells in bone marrow smears is the golden standard for diagnosis. However, morphological assessment and differential count of bone marrow smears are still performed manually. This procedure is tedious, time-consuming and laden with high inter-operator variation. To solve this issue, aetherAI Hema is specifically developed to automate the procedure of bone marrow smear differential counting and further benefit all leukemia patients eventually.

**Detect nucleated cells**     **Classify cell into 15 subtypes**     **Provide summary results**

## High Efficiency

With the help of AI, results are readily available with just a few clicks. Each cell will be classified into one of the 15 main subtypes.

## Increased Consistency

Trained on the world's largest dataset of over 1,000,000 carefully curated cells, aetherAI Hema is able to perform consistently, any time of the day. The verified results can be saved in the system and further used for educational purposes or peer discussion.

## Plug-n-play Solution

Our plug-n-play product package includes bone marrow smear analysis software, dedicated AI computer and digital camera. No further integration or internet connection required.

CE    FDA

# aetherAI | Hema

## Product Package Specifications



## AI Software

| | |
|---|---|
| **Product Name** | Bone Marrow Smear Analysis Software |
| **Description** | In vitro digital analysis software for differential counting of hematopoietic cells of bone marrow smear images |
| **Classification** | Blasts, promyelocytes, myelocytes, metamyelocytes, band and PMN, eosinophils and precursors, basophils and precursors, monocytes and precursors, lymphocytes, plasma cells, other erythroblasts, proerythroblasts, histiocytes, mitosis, and invalid & others |
| **Mode** | Live Mode, Review Mode, and Summary Mode |
| **Summary Results** | Counting results of each cell type (only with verification); Percentage of each countable cell type (only with verification); Flag notice if blast is equal and higher than 20%; Reminder notice when total verified countable cell is less than 500 cells; M:E ratio excluding cell with Auer rods |
| **Compatible Stains** | Wright Giemsa Stain, Liu's Stain(a modified Romanosky stain) |
| **Certification** | CE, TFDA |

## Microscope Requirements

| | |
|---|---|
| **Objective Lens Numerical Aperture** | ≥1.3 |
| **Objective Lens Type** | Semi-APO or APO, 63x~100x oil immersion lens |
| **Condenser Numerical Aperture** | ≥0.9 |
| **Magnification** (Objective Lens*Relay Lens) | 63~70 |
| **Illuminator Type** | LED |
| **Relay Lens** | Support C-mount |

## Accessories

**AI Computer with 1TB storage**
**200-megapixel Industrial Camera**

\* Change of product compatibility, specifications, technical modifications or package offerings may be required as the product evolves.

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