

## **C6. DEVELOPMENT IN CELLULAR ANALYSIS TECHNOLOGIES OFFERED IN ROUTINE HAEMATOLOGY SYSTEMS TO HELP IN BETTER IDENTIFICATION OF ABNORMAL CELLS**

***GHAURI Muhammad Aurangzeb***

Senior Product Manager, Haematology, Clinical Diagnostics Emerging Markets, EMEA, Beckman Coulter International S.A., Nyon, Switzerland

- Development in Technologies: multidimensional Flow Cytometry Analysis of Cells in DxH Systems
- Decision rules to help lab automate sample reviews and reduce manual steps
- HaematoFlow and CytoDiff

Flow Cytometric Digital Morphology: multiple direct measurements with a total of 29 measurements per Cellular Event, including: volumetric, radio frequency, 5 x angles of laser light scatter, nucleus to cytoplasmic ratio, cell complexity, granularity, nucleus structure

Advanced Algorithm Applications: snake algorithm, separation of defined cell populations, utilizes population coordinates, aids in 3D Cell Population Display.

Pre-Installed Decision Rules: in addition to the 41 ISLH Consensus rules that are installed on the DxH 800 V2.0, there are 16 pre-installed rules utilizing Cell Population Data (CPD) to help identify Anisocytosis as an example.

Decision Rules Work Bench: Decision Rules Workbench allows for generation/editing of inactive rules while on-line.

Rules are then enabled once offline

HematoFlow Cellular Analysis Solution:

The new solution for validation of abnormal WBC samples with CytoDiff

Brings flow cytometry in the routine hematology lab

Automates manual differential, for standardization and accuracy

Exclusive Beckman Coulter algorithms increase reliability of results

CytoDiff is a 5 color, 6 antibody cocktail which yields an extended 10-part flow differential.