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List of Abbreviations

- **Ag-Ab :** Antigen-antibody
- **ALCL :** Anaplastic large cell lymphoma
- **ALL :** Acute lymphoblastic leukemia
- **AML :** Acute myeloid leukemia
- **Amol :** Acute monoblastic and monocytic leukemia
- **APL :** Acute promyelocytic leukemia
- **ATRA :** All-trans-retinoic acid
- **BM :** Bone marrow
- **BMTB :** Bone marrow trephine biopsies
- **CBF :** Core binding factor
- **CEBPA:** CCAAT/enhancer binding protein alpha.
- **CMML :** Chronic myelomonocytic leukemia
- **CR:** Complete remission
- **CUB:** Complement component Cr1/c1s, sea urchin protein, and bone morphogenic protein
- **DAB:** Substrate-chromogen
- **DIC :** Disseminated intravascular coagulopathy
- **DW:** Distilled water
- **EGF:** Epidermal Growth Factor
- **ELISA :** Enzyme-linked immunosorbent assay
- **FAB :** French-American-British
- **FCM :** Flow cytometry
- **FHF :** Fulminant hepatic failure

List of Abbreviations

- **FISH** : Fluorescence in situ hybridization
- **FLT3** : Fms related tyrosine kinase 3 gene
- **FUO** : Fever of unknown origin
- **G-CSF** : Granulocyte colony stimulating factor
- **GM-CSF** : Granulocyte-macrophage colony stimulating factor
- **GVL** : Graft-versus leukemia
- **H&E** : Hematoxylin & Eosin
- **H2O2** : Hydrogen peroxide
- **Hb** : Haemoglobin
- **Hb-Hp** : Haemoglobin-Haptoglobin
- **Hbsr** : hemoglobin scavenger receptor
- **HC** : Healthy controls
- **HM** : Hepatomegaly
- **HO-1** : Haem oxygenase -1
- **Hp** : Haptoglobin
- **HSCT** : Hematopoietic stem cell transplantation
- **ICC** : Immunocytochemistry
- **IHO** : Immunohistochemistry
- **IL-10** : Interleukin-10
- **IL-6** : Interleukin-6
- **ITD** : Internal tandem duplication
- **LDN** : Lymphadenopathy
- **MDR-1** : Multidrug resistance-1
- **MDS** : Myelodysplastic syndrome

List of Abbreviations

- **MLL:** Myeloid/ lymphoid or mixed-lineage leukemia gene
- **MPO :** Myeloperoxidase
- **MRD :** Minimal residual disease
- **NPM :** Nucleophosmin (nucleolarphosphoprotein B23, numatrin)
- **PB :** Peripheral blood
- **PBS :** Phosphate buffer saline
- **PCR :** Polymerase chain reaction
- **RA :** Rheumatoid arthritis
- **RAR :** Retinoic acid receptor
- **RT-PCR :** Reverse transcriptase polymerase chain reaction
- **SIRS :** Systemic inflammatory response syndrome
- **SM :** Splenomegaly
- **Spa :** Spondyloarthritis
- **SR_AIII :** Scavenger receptor class A type III
- **SR_BII :** Scavenger receptor class B type II
- **SR-AI :** Scavenger receptor class A type I
- **SR-AII :** Scavenger receptor class A type II
- **SR-As :** Class A scavenger receptors
- **SR-BI :** Scavenger receptor class B type I
- **SRCR – SF :** Scavenger receptor cysteine-rich super family
- **SRCR :** Scavenger receptor cysteine-rich
- **T-AML :** Therapy-related AML

List of Abbreviations

- **TNF :** Tumor necrosis factors
- **TNF- α :** Tumor necrosis factor alfa
- **U.S :** United States
- **WBC :** White blood cell
- **WHO :** The World Health Organization

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Introduction





Aim of the Work





Review of Literature





Chapter (1)

Acute Myeloid Leukemia





Chapter (2)

CD163 Scavenger Receptor

