



Acknowledgement

Praise to "Allah", the Most Gracious and the Most Merciful Who Guides Us to the Right Way

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LIST OF ABBREVIATIONS

ALT	: Alanine aminotransferase
APRIL	: a proliferation-inducing ligand
AST	: Aspartate aminotransferase
BAFF	: B cell activating factor
BAFF-R	: BAFF receptor
BCMA	: B cell maturation antigen
BLyS	: B lymphocyte stimulator
CD	: Cluster of differentiation
DNA	: Deoxyribonucleic acid
EIA	: Enzyme immunoassay
ELISA assay	: Enzyme-linked immunosorbent
HBs Ag	: Hepatitis B surface antigen
HBV	: Hepatitis B virus
HCC	: Hepatocellular carcinoma
HCV	: Hepatitis c virus
HCV Abs	: Hepatitis C virus antibody
HIV	: Human immunodeficiency virus
IFN	: Interferon
IFN- γ	: Interferon gamma
IgM	: Immunoglobulin M
MC	: Mixed cryoglobulinaemia
MPGN	: Membranoproliferative glomerulonephritis
NHL	: Non-Hodgkin lymphoma
PAT	: parenteral antischistosomal therapy
PCR	: Polymerase chain reaction
PCR-RFLP	: PCR-restriction fragment length polymorphism

pSS	: Primary Sjogren's syndrome
RNA	: Ribonucleic acid
RA	: Rheumatoid arthritis
RF	: Rheumatoid factor
RF	: Rheumatoid factor
SLE	: Systemic lupus erythematosus
SLE	: Systemic lupus erythromatosis
SNPs	: Single nucleotide polymorphisms
SVR	: Sustained virological response
TACI	: Transmembrane activator and CAML-interactor
TALL-1T –cell	: Acute lymphoblastic leukemia
TRAFs	: TNF-receptor-associated factors
VDJ	: Variable junction
WB	: Wash Buffer
WHO	: World Health Organization
zTNF4	: Tumer necrosing factor