



**AMINO ACID SUBSTITUTION IN
HEPATITIS C VIRUS CORE AND GENETIC VARIATION IN
INTERLEUKIN 28B GENE AND THEIR CORRELATION TO
INTERFERON TREATMENT FAILURE IN CHRONIC HCV
EGYPTIAN PATIENTS**

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List of Abbreviations

aa	:amino acids
ALT	:Alanine transaminase
AST	:Aspartate transaminase
BSF-2	: B-cell stimulatory factor-2
CHC	:Chronic hepatitis C virus
CRF	: Cytokine receptor family
D.Bil	: Direct bilirubin
DNA	: Desoxyribo nucleic acid
dsRNA	: double-stranded RNA
EDF	: Eosinophil differentiation factor
FDA	: Food and Drug Administration
FRET	: Fluorescence resonance energy transfer
GCSF	: Granulocyte colony-stimulating factor
GMCSF	: Granulocyte-macrophage colony stimulating factor
GWAS	: Genome-wide association studies
HAV	: Hepatitis A virus

Hb	: Hemoglobin
HBV	: Hepatitis B virus
HCC	: Hepatocellular carcinoma
HCV	: Hepatitis C virus
HDV	: Hepatitis D virus
HIV	: Human Immunodeficiency Virus
HOMA-IR	: Homeostasis model assessment-Insulin Resistance
IFNs	: Interferons
Ig	: Immunoglobulin
IL	: Interleukin
IL28B	: Interleukin 28B gene
Ind.Bil	: Indirect bilirubin
IPC	: Internal Positive Control
IR	: Insulin resistance
IRES	: Internal ribosome entry site
IRS	: Insulin receptor substrate
ISDR	: IFN-sensitivity-determining region
ISGF3	: IFN-stimulated gene factor 3

ISGs	: Interferon-stimulated genes
LFTs	: liver function tests
MGF	: Myelomonocytic growth factor
MHC	: Major histocompatibility complex
NK	: Natural killer
NPV	: Negative predictive value
NS	: Non-structural
NS3-4A	: Serine protease
NVR	: Non-virological response
PBMCs	: Peripheral blood mononuclear cells
PCR	: Polymerase chain reaction
Peg IFN	: Pegylated interferon
PPV	: positive predictive value
qRT-PCR	: Real time PCR
RBV	: Ribavirin
RNA	: Ribonucleic acid
Rntp	: Ribonucleoside triphosphates
RT-PCR	: Reverse-transcriptase polymerase chain reaction

SNP	: Single nucleotide polymorphism
SOCS	: Suppressor of cytokine signalling
STAT	: Signal transducer and activator of transcription
SVS	: Sustained virological response
T.Bil	: Total bilirubin
Th	: T helper
TLC	: Total leucocyte count
TLRS	: Toll Like Receptors
TM	: Transmembrane
UTR	: Untranslated region
VAP	: Vesicle associated membrane protein

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