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LIST OF ABBREVIATIONS

(+) : Positive.
(-) : Negative.
ΔA/min : Absorbance rate per minute.
aa : amino acid.
A : Absorbance.
A600/800nm : Absorbance 600/800 Nano-miter.
A (1→4) : Grad of activity evaluates intensity of necro inflammatory.
ABI : Applied biosystem.
ADP : Adenosine diphospate.
AE : Elution buffer of cell nucleic acid.
AFP : Alpha fetoprotein.
AGE : A garose gel electrophoresis.
Ag-Ab : Antigen-Antibody complex.
AL : Cell lysis buffer.
ALB : Albumin.
ALP : Alkaline phosphatase.
ALT : Alanine aminotransferase.
ANA : Anti-Nuclear Antibody.
Apo-B : Apoprotein-B.
AST : Aspartate transferase.
ATP : Adenosine triphosphate.
AUC : Area under the curve.
AVE : Eluted viral nucleic acid.
AVL : QiaAmp Viral Lysis.
AW : Washing nucleic acid.
bp : Base Pair.
BCIP : 5-Bromo-4-chloro-3-indolyl-phosphate.
BCP : Bromocresol purple.
BMI : Body mass index.
BT : Breakthrough.
C : Core.
^{o}C : Degree centigrade.

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CD81 : Cluster of Differentiation 81.
cDNA : Complementary DNA.
CI : Confidence interval.
CHC : Chronic hepatitis C.
CKII : Casein kinase II.
CLDN : Claudin-1 receptor mediate HCV entry
CLIA : Chemiluminescent enzyme immunometric assay.
Cr : Creatinine.
CREs : The cis-acting replication elements.
CTLA4 : Cytotoxic T-lymphocyte-associated protein 4.
Cs : Known standard Concentration.
D : Domain.
dATP : 2'-deoxyadenosine triphosphate.
D.Bil : Direct bilirubin.
dCTP : 2'-deoxycytidine 5'-triphosphate.
DCs : Dendritic cells.
DExH/D-box : proteins are the largest group of enzymes in eukaryotic RNA metabolism
dGTP: : 2'-deoxyguanosine 5'-triphosphate.
DNA : Deoxyribonucleic acids.
dNTPs : Deoxynucleoside, 5´triphosphates.
dTTP : 2'-deoxythymidine 5'-triphosphate.
E : Envelope glycoproteins.
EDTA : Ethylene Diamine Tetra Acetic Acid.
eIF3 : Eukaryotic initiation factor 3.
ELISA : Enzyme Linked Immuno Sorbent Assay.
EMCV : Encephalo myocarditis virus.
EoTR : End-of treatment response.
ER : Endoplasmic reticulum.
et al : et alter.
EtOH : Ethanol.
EVR : Early Virological Response.
F(1-4) : Stage of liver fibrosis from 1 to 4
FAM : 6-carboxy fluorescein
FBS : Fasting blood glucose.

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FFAS : Free fatty acids.
Fig : figure.
FRET : Fluorescence (or Forster) Resonance Energy Transfer
g : Relative centrifugal force.
G/U : Guanine/ uracil nucleotides.
GAS : Gamma activated sequence.
GBV : The GB viruses (hepatitis G virus (HGV) also known as HPgV.
GBV-B : Hepatitis GB virus B.
GGT : Gamma Glutamyl Transferase.
GLUT-4 : Glucose transferase-4.
GWAS : Genome-wide association studies.
g/L : Gram per liter.
g/dL : Gram per deciliter.
g/ml : gram per millimeter.
µg/kg/week : microgram per every kilogram every week.
H2O : Water.
H_2O_2 : Hydrogen peroxide.
HBs-Ag : Hepatitis B virus surface antigen.
HBV Ag : Hepatitis B virus antigen.
HBV : Hepatitis B virus.
HCC : Hepatocellular Carcinoma.
HCV : Hepatitis C virus.
HCV Ab : HCV antibodies.
HCV-Ag : HCV antigen.
HCV-GT 1 : Hepatitis C Virus genotype-1.
HCV 4 : Hepatitis C Virus genotype 4.
HCVcc : HCV in cell culture.
HCVpp : HCV pseudo particle.
HDL : High-Density lipoprotein
HDL-C : High density lipoprotein cholesterol.
HIV : Human Immunodeficiency Virus.
HOMA-IR : Homeostasis Model for Assessment of insulin resistance.
HPLC : High performed liquid gas chromatography.
Huh-7 : Human hepatocyte cell-7.

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IFCC : International Federation of Clinical Chemistry.
IFN : Type I interferon.
IFNAR : The interferon alpha/beta receptor.
IFNAR2c : Interferon alpha receptor chain 2.
IFNGR : The interferon gamma receptor.
IFN-λ : Interferon- lambda.
IFN-α : Interferon-alpha.
IFN-β : Interferon-beta.
IFN-γ : Interferon-gamma.
IL : Interleukin.
IL-10R : Interleukin-10 receptor.
IL-28B : Interleukin-28B.
INR : International Normalized Ratio.
Ins : Insulin.
IR : Insulin resistance.
IRES : Internal ribosome entry site.
IRF9 : Interferon regulatory factor 9.
IRS : Insulin receptor substrates.
ISDR : Interferon sensitivity determining region.
ISGF3 : Interferon stimulated gene factor 3.
ISGs : Interferon stimulated genes.
IU/L : International unit per liters.
IU/mL : International unit per milliliters.
JAK1 : Janus kinase 1.
Kb : kilo base.
Kbp : kilo base pair.
KDa : Kilo Dalton
Kg : Kilogram.
Kg/m^2 : Kilogram/miter square.
LDL : Low-density lipoprotein.
LDL-C : Low density lipoprotein cholesterol.
LDs : Lipid droplets.
LMP7 : Low molecular mass polypeptide 7.
M : Male.

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MBL : Monoclonal B-Cell Lymphocytosis.
mg : Milligram.
µg/kg/week : Microgram per kilogram every week.
µmol/L : Micromole per liter.
µL : Microliter.
µIU/ml : Micro international unit per millimeter.
MGB : Minor groove binder.
mg/dL : Milligram per deciliter.
mg/kg/day : Milligram per kilogram per day.
min : Minute.
miR : MicroRNAs.
miRNAs : Micro ribonucleic acid.
mlU/L : Micro international unit per liter.
mmol/ L : Millimole per liter.
mRNA : Messenger ribonucleic acid.
MxA : Myxovirus Resistance Gene A.
MX1 : Myxovirus-resistant 1.
N : Negative.
NAD : Nicotinamide adenine dinucleotide.
NADH : Nicotinamide adenine dinucleotide hydrogenates.
NANBH : Non-A, non-B hepatitis
ng/µl : Nanogram per microliter**.**
nm : Nano-miter.
NMR : Nuclear magnetic resonance.
NFQ : Non-fluorescent quencher.
NR : Non-Response.
NS : Nonstructural proteins
NS4A : Nonstructural proteins 4A.
nt : Nucleotides.
NTC : Non Template Control.
NTPase : Nucleoside triphosphatases.
NTRs : Non translated RNA segments.
OAS1 : genes encoding active 2'-5'oligoadenylate synthetase (OAS) enzymes.
OAS : 2'-5'oligoadenylate synthetase.

OCLN : Occludin receptor.
OR : Odds Ratio.
ORF : Open reading frame
p : Probability.
p7 : Protein (ion channel or viroporin).
p53 : Protein 53(tumor suppressor).
PBS : peripheral blood sample.
PCR : Polymerase chain reaction.
PEG : Polyethylene glycol.
PEG-INF : Pegylated interferon.
PI3K : Phosphatidyl-inositol-3-kinase.
PKR : Protein kinase R.
PMT : Photomultiplier tube.
PNR : Primary Non-Response.
PO_4 : Phosphate.
PP2h : Postprandial glucose level after 2 hour.
PPBl : Postprandial blood glucose.
PRKR : Protein kinase RNA-regulated.
PT : Prothrombin time.
PC : Prothrombin concentration.
R : Responder.
RBV : Ribavirin.
RDRP : RNA dependent RNA polymerase.
RIG-I : Retinoic acid inducible gene.
RNA : Ribonucleic acid.
Rn : Reporter normalized.
RF : Replicative form.
ROC : Receiver-operator characteristic
Rpm/rpm : Round per minute/ Revolutions per minute.
RT : Reverse transcriptase enzyme.
Rs60 : rs12979860.
RVR : Rapid Virological Response.
S : Standard.
SCH.Ab : Schistosomal antibodies.

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SD : Standard deviation.
SDS : Sequence Detection System.
S.E : Standard Error.
S.Ins : Serum insulin.
SL : Stem-loop.
SNP : Single Nucleotide polymorphisms.
SOC : Standard of care.
SOCS3 : Suppressor of cytokine signaling 3.
SPSS : Statistical Package for the Social Science.
SR-BI : Scavenger receptor class B member I.
SREBP-1c : Sterol regulatory element-binding protein 1c.
STAT : Signal transducer and activator of transcription.
SVR : Sustained Virological Response.
T : Test.
Taq : Thermus aquaticus.
T.Bil : Total bilirubin.
TBE : Tris Borate EDTA.
TC : Total Cholesterol.
T2DM : Type 2 diabetes.
TG : Triglycerides.
TGF-β : Transforming growth factor-beta.
Th : T helper cell.
TLRs : Toll-like receptors.
TM : Trans membrane.
Tm : melting temperature.
TMA : Transcription-mediated amplification.
TMB : Tetra methyl benzidine.
TNF- α : Tumor necrosis factor α.
TRAIL : Tumor necrosis factor (TNF)-related apoptosis inducing ligand.
TSH : Thyrotropin (Thyroid-Stimulating hormone).
TYK2 : Tyrosine kinase 2.
U/L : Units/L.
3`UTR : 3 prime untranslated region.
5`UTR : 5 prime untranslated region.

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UTR : Untranslated region.
U/UC : Uracil/Uracil C.
UV : Ultraviolet.
VLDL : Very- Low-density lipoprotein.
VSL : Variable Stem-loop.
ג : Wave length (lambda).
χ^2 : Chi square.
X : Mean.

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