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List of abbreviations

2-AAF	2-acetylaminofluorene
AFP	Alpha fetoprotein
AHF	Altered Hepatocyte Foci
ALP	Alkaline phosphatase
ALT	Alanine aminotransferase
AP-1	Activator protein-1
AST	Aspartate aminotransferase
ATPases	Adenosine triphosphatases
BUN	Blood urea nitrogen
BW	Body weight
CAR	Constitutive active/androstane receptor
CAT	catalase
CDDP-HAI	Cisplatin-hepatic arterial infusion
CDK	Cyclin dependent kinases
Cis DDP	<i>cis</i> -diamminedichloroplatinum
CLA	Conjugated linoleic acid
CLRE	Curcuma longa rhizome ethanolic extract
CM	Camel milk
CYP2B	Cytochrome p450 family B
DENA	diethylnitrosamine
DNA	Deoxyribonucleic acid
DPPH	1-1-diphenyl-2-picrylhydrazyl free radical
FD	Focal dysplasia
FRAP	Ferric reducing/antioxidant power
γ - BHC	Gamma benzene hexachloride
γ - GT	Gamma glutamyl transpeptidase
GGT	Gamma glutamyl transferase
gDNA	Genomic DNA
GJIC	Gap junction intercellular communication
GlyCAM-1	Glycosylation dependent cell adhesion molecule
GSH	Reduced glutathione
GSH Px	Glutathione peroxidase
GST	Glutathione-s-Transferase
GST-P	Placental glutathione-s-transferase
GP	Group
GR	Glutathione reductase
HAF	Hepatocyte altered foci
HAMLET	Human α lactalbumin made lethal to tumor cells
Hb	haemoglobin
HCAbs	Heavy chain antibodies
HCC	Hepatocellular carcinoma
HCV	Hepatitis C virus

H&E	Hematoxylin and eosin stain
HIV	Human immunodeficiency virus
Huh 7.5	Human hepatocyte cell line
Ig A	Immunoglobulin A
Ig G	Immunoglobulin G
Ig M	Immunoglobulin M
I κ B kinase (IKK)	Inhibitor of Kappa B kinase
IL	interleukin
INOS	Inducible nitric oxide synthetase
I/P	intraperitoneal
KDa	killodalton
LDH	Lactate dehydrogenase
LDL	Low density lipoprotein
MDA	Malondialdehyde
MMPs	Matrix metalloproteinases
MNNG	1-methyl-1-nitroso-3-nitroguandine
mRNA	Messenger ribonucleic acid
NADP	Nicotinamide adenine dinucleotide phosphate
NF-KB	Nuclear factor kappa B
NNSP	Non nodular surrounding parenchyma
NO	Nitric oxide
NO-	Nitric oxide radical
NO _x	Total nitrite and nitrate
NQO	N-nitroquinoline-1-oxide
O ₂ ⁻	superoxide
ODC	Ornithine decarboxylase
ONOO-	peroxynitrite
-OH	Hydroxyl radical
PAHs	Polycyclic aromatic hydrocarbon (s)
PB	phenobarbital
PBMCs	Peripheral blood mononuclear cells
PCNA	Proliferating cell nuclear antigen
PCV	Packed cell volume
PG	prostaglandin
P-GST	Placental glutathione transferase
PH	Partial hepatectomy
PHA	phytohemagglutinin
PhIP	2-amino-1-methyl-6-phenylimidazol[4,5-b] pyridine
PNs	Persistent nodules
ppm	Part per million
RBCs	Red blood cells
RH	Resistant hepatocyte
ROS	Reactive oxygen species
SCE	Sister chromatid exchange
SER	Smooth endoplasmic reticulum