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## *Abbreviations*

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%	Percent
μ	Micron
μg	Microgram
AMS	Acute mountain sickness
CAT	catalase
cfu	Colony forming unit
cm	Centimeter
CNS	Central nervous system
g	Grams
g	Gravitational acceleration
GDI	Growth direction index
GI	Gastro-intestine
GIT	Gastrointestinal tract
GPx	glutathione peroxidase
GSH	Reduced glutathione
GSSG	Oxidized glutathione
H & E	Hematoxylin and eosine
HA	High altitude
HACE	High altitude cerebral edema
HAFE	High altitude flatus expulsion
HAPE	High altitude pulmonary edema
HARS	High altitude related symptoms
HDR	Hypoxia diuresis response

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HH group	Hypobaric hypoxic group
HIF	Hypoxic inducing factor
HPV	hypoxic pulmonary vasoconstriction
HVR	hypoxic ventilator response
IFN- $\gamma$	interferon gamma
IL	interleukin
kb	Kilo base
kD	Kilo Dalton
kPa	Kilo Pascal
L	Litre
LAB	Lactic acid bacteria
LI	Large intestine
LPS	Lipo-polysaccharide
mA	Milliampere
MAMP	Microbe associated molecular patterns
MAP	mitogen-activated kinase
MDA	malonydialdehyde
mg	Milligram
mL	Millilitre
mmHg	Millimeter of mercury
MMP	Mitochondrial membrane potential
MPa	Mega Pascal
mV	Millivolts
Mw	Molecular weight
NA	Normobaric group

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NF- $\kappa$ B	nuclear factor- $\kappa$ B receptors
ng	Nano gram
NOD	nucleotide-binding oligomerization domain
c	Degree Celsius
OD	Optical density
p	Partial pressure of gas
PAP	Pulmonary arterial pressure
PAS	Periodic schiff staining
PBS	Phosphate buffer saline
PCR	Polymerase chain reaction
PHD2	prolyl-hydroxylase 2
psia	Pond per square inch air absolute
R	Universal gas constant
ROS	Reactive oxygen species
RNS	Reactive Nitrogen species
rpm	Revolution per minute
SCFA	Short chain fatty acid
SEM	Scanning electron microscopy
SI	Small intestine
SOD	Superoxide dismutase
TLR	Toll like receptor
TNF	Tumor necrosis factor
v/v	Volume/volume
w/v	Weight/volume

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