

## List of Abbreviations and Symbols

FDA	Food and Drug Administration
CINV	Chemotherapy-Induced Nausea and Vomiting
GI tract	Gastrointestinal tract
AD	Alzheimer's disease
CNS	central nervous system
PNS	Peripheral nervous system
IBS	Irritable bowel syndrome
MQN	Methylquinuclidine
QNO	Quinuclidinone
QN-OH	Quinuclidinol
QN	Quinuclidine
nM	Nano molar
$\alpha 7$ nAChR	Nicotinic acetylcholine receptor
IC <sub>50</sub>	Inhibitory concentration
MLA	Methylcaconitine
K <sub>i</sub>	Equilibrium constant
PKC	Protein Kinase C isozymes
$\mu$ M	Micromolar
LiAlH <sub>4</sub>	Lithium aluminium Hydride
p53	Tumor suppressor gene
GI <sub>50</sub>	Growth Inhibitory Concentration

DAG	Diacylglycerol
ee	Enantiomeric excess
HCN	Hydrogen cyanide
DABCO	1,4-diazabicyclo[2.2.2]octane
DMAP	Dimethylaminopyridine
DBU	1,8-Diazabicyclo[5.4.0]undec-7-ene
PPh <sub>3</sub>	Triphenyl phosphine
IL	Iononic Liquid
DMF	Dimethyl Formamide
THF	Tetrahydrofuran
MDC	Dichloro methane
FTIR	Fourier transform infrared spectroscopy
NMR	Nuclear Magnetic Resonance
HCl	Hydrochloric acid
H <sub>2</sub> SO <sub>4</sub>	Sulfuric acid
H <sub>3</sub> PO <sub>4</sub>	Phosphoric acid
Mol.	Mole
s	Singlet
d	Doublet
t	Triplet
m	Multiplet
TLC	Thin layer chromatography

TSGs	Tumor- suppressor genes
EDTA	Ethylenediamine tetra acetic acid
MTT	3-(4, 5-dimethylthiazol-2-yl) -2, 5-diphenyl tetrazolium bromide
CDCl <sub>3</sub>	Deuterated Chloroform
DMSO	Dimethyl Sulfoxide