

List of abbreviations

A	adenine
A549	NSCLC Non small cell lung carcinoma
<i>Anal. Calc.</i>	calculated elemental analysis
ATP	adenosine triphosphate
AO	acridine orange
<i>bpy</i>	2,2'-bipyridine
BSA	bovine serum albumin
C	cytosine
CDK	cyclin-dependent kinases
CNS	central nervous system
Cp	cyclopentadienyl rings
CT-DNA	calf thymus DNA
<i>d</i>	doublet
<i>dd</i>	double of doublet
<i>dt</i>	<i>doublet of triplet</i>
dppz	dipyridophenazine
DMDPPZ	<i>3,6-dimethyldipyrido[3,2-a:2',3'-c]phenazine,</i>
<i>dmp</i>	<i>2,5-dimethylpyrrole</i>
DMEM	Dulbecco's modified Eagle's Medium
DMSO	dimethylsulfoxide
DNA	deoxyribonucleic acid
Dp44mT	di-2-pyridylketone4,4-dimethyl-3-thiosemicarbazone
EGFR	epidermal growth factor receptor
<i>eq.</i>	equation
<i>en</i>	ethylenediamine
EB / EtBr	ethidium bromide
ESI-MS	electrospray ionization mass spectrometry
EPR	enhanced permeation and retention
FDA	<i>food and drug administration</i>
<i>Fig.</i>	figure
FTIR	Fourier transform infrared spectroscopy
G	guanine
GSH	glutathione
Him	imidazole
HT29	human colorectal adenocarcinoma
IC ₅₀	concentration of a compound that induces 50% growth inhibition of cells compared to untreated cells
ICP	inductively coupled plasma
K _b	intrinsic binding constant
K _{SV}	Stern-Volmer quenching constant
K _a	association binding constant
kDa	kilodalton
<i>m</i>	multiplet
M	Molar
μM	microMolar
mM	miliMolar
<i>m/z</i>	mass to charge ratio
MCF7	estrogen receptor +/- progesterone receptor + human breast cancer cell line

MIC	minimum inhibitory concentration
MLCT	metal to ligand charge transfer
MRI	magnetic resonance imaging
MTB	<i>Mycobacterium tuberculosis</i>
MTT	3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyl-2H-tetrazolium bromide
nm	nanometer
NADH	nicotinamide adenine dinucleotide
NMR	nuclear magnetic resonance
<i>p-cym</i>	<i>para</i> -cymene
<i>phen</i>	1, 10-phenantroline
PBS	phosphate buffered saline
PC-3	prostate cancer
<i>Prⁱ</i>	<i>iso</i> -propyl
PI	propidium iodide
<i>q</i>	quartet
RNA	ribonucleic acid
RT	room temperature
RT-PCR	reverse transcription polymerase chain reaction
ROS	reactive oxygen species
<i>s</i>	singlet
SAR's	structure-activity relationships
SPARC	Satraplatin and prednisone against refractory cancer
SW480	human colon adenocarcinoma
T	thymine
<i>t</i>	triplet
TMS	tetramethylsilane
<i>tpy</i>	2,2':6',2''-terpyridine
U373-MG	glioblastoma
UV-Vis	ultra violet –visible region
VEGF	vascular endothelial growth factor