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## LIST OF NOTATIONS, SYMBOLS AND ABBREVIATIONS

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<b>Notations</b>	<b>Abbreviations</b>
<i>et al.</i>	et alia, Latin for "and others"
<i>i.e.</i>	that is
e.g.	Example
DMG	Directed Metalation Group
B <sub>2</sub> pin <sub>2</sub>	Bis(pinacolato)diboron
B <sub>2</sub> Cat <sub>2</sub>	Bis(catacolato)diboron
HBpin	Pinacolborane
HBcat	Catacolborane
B <sub>2</sub> (OH) <sub>4</sub>	Tetrahydroxyborate
dppp	1,3-bis(diphenylphosphino)propane
<i>t</i> -BuONO	<i>Tertiary</i> butyl nitrite
BPO	Benzoyl peroxide
dppe	1,3-bis(diphenylphosphino)ethane
MIDA	<i>N</i> -methyliminodiacetic acid
R-BF <sub>3</sub> K	Potassium trifluoroborate salts
ABT-963	[2-(3,4-difluoro-phenyl)-4-(3-hydroxy-3-methyl-butoxy)-5-(4-methanesulfonyl-phenyl)-2H-pyridazin-3-one]
COX	Cyclooxygenase
MMP	Matrix metalloproteinase
DNA	Deoxyribo Nucleic acid
DAPA	9-[3-( <i>N,N</i> -dimethylamino)propylamino]acridine
NC	Nitracrine
AC	1-Amino-9-[3-( <i>N,N</i> -dimethylamino)propylamino]acridine
MCR	Multi-component reactions
PBM	<i>Petasis Borono-Mannich</i>
NB-598	( <i>E</i> )-3-[(3,3'-Bithiophen)-5-ylmethoxy]- <i>N</i> -(6,6-dimethyl-2-hepten-4-ynyl)- <i>N</i> -ethylbenzylamine
MSO	Methionine sulfoximine
BSO	Buthionine sulfoximine
MeOH	Methanol
DCE	Dichloroethane

DCM	Dichloromethane
TEA	Triethylamine
THF	Tetrahydrofuran
DMSO	Dimethyl sulfoxide
EtOAc	Ethyl acetate
OAc	Acetate
Py	Pyridine
4-DMAP	4-N,N-dimethylaminopyridine
DABCO	1,4-Diazabicyclo[2.2.2]octane
DBU	1,8-Diazabicyclo[5.4.0]undec-7-ene
Bipy	Bipyridyl
pH	Potential of hydrogen
DCC	N,N'-Dicyclohexylcarbodiimide
DCU	Dicyclohexylurea
FAAH	Fatty acid amide hydrolase
Cat.	Catalyst
MS	Molecular sieve
(S)-BINAP	(S)-(-)-2,2'-Bis(diphenylphosphino)-1,1'-binaphthalene
Cod	1,5-Cyclooctadiene
FAMEs	Fatty acid methyl esters
PEG	Polyethylene glycol
H <sub>2</sub> O <sub>2</sub>	Hydrogen peroxide
UHP	Urea hydrogen peroxide
<i>m</i> -CPBA	<i>meta</i> -Chloroperoxybenzoic acid
Boc	<i>Tertiary</i> butyloxycarbonyl
OTf	Triflate
<i>t</i> - or <i>tert</i> .	<i>Tertiary</i>
equiv.	Equivalent
min	Minute
h	Hour
Wt.	Weight
RT or r.t	Room temperature
TLC	Thin Layer Chromatography
NMR	Nuclear magnetic resonance
ppm	Parts per million
brs	Broad

IR	Infrared
HRMS	High resolution mass spectroscopy
mL	Mililiter
mg	Miligram
mm	Milimeter
cm	Centimeter
nm	Nanometer
Hz	Hertz
MHz	Megahertz
Calc.	Calculated
Obser.	Observed
R <sub>f</sub>	Retardation factor
XRD	X-ray diffraction
CCDC	Cambridge Crystallographic Data Centre
LC-MS	Liquid chromatography-mass spectrometry
UV-Vis	Ultraviolet-Visible
<i>p</i> -NP	<i>para</i> -Nitrophenol
rr	Regioselectivity ratio
dil.	Diluted
aq.	Aqueous
ee	Enantiomeric excess
s <sup>-1</sup>	Per second
approx.	Approximately

## SYMBOLS USED

Symbols	Full Name
α	Alfa
β	Beta
γ	Gamma
°C	Degree celsius
K	Kalvin
ρ	rho
Θ	Theta uppercase
σ	Sigma
©	Copyright

$\mu$	mu
$\pm$	Either plus or minus
$>$	Greater than
$<$	Less than
$\sim$	Approx.
$\%$	Percentage
$\Sigma$	Sigma Uppercase
$\leq$	Less than or equal to
$\geq$	Greater than or equal to
$\Delta$	Delta Uppercase
$\&$	And
$\text{\AA}$	Ångström
$\square$	Epsilon
$C$	Concentration
$A$	Absorbance
$\eta$	Eta