It's about time: novel drug discovery concepts for the molecular pharmacological characterization fo the cannabinoid CB2 receptor

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List of abbreviations

2-AG	2-arachidonoylglycerol
$A_{2A}R$	Adenosine A_{2A} receptor
AC	Adenylate cyclase
AD	Alzheimer's disease
ADGRG1	Adhesion G protein-coupled receptor G1
ADME	Absorption, distribution, metabolism and excretion
AEA	*N*-arachidonoylethanolamide, anandamide
Aha1	ATPase homologue 1
ALS	Amyotrophic lateral sclerosis
ANOVA	Analysis of variance
ATP	Adenosine triphosphate
AUC	Area under the curve
BAM	Biased allosteric modulator
BCA	Bicinchoninic acid
$ß_2AR$	$ß_2$-adrenoceptor
B_{max}	Receptor expression level
BRET	Bioluminescence resonance energy transfer
BUN	Blood urea nitrogen
cAMP	Cyclic adenosine monophosphate
CaR	Calcium-sensing receptor
CB_1R	Cannabinoid CB_1 receptor
CB_2R	Cannabinoid CB_2 receptor
CBD	Cannabidiol
CBD-DMH	Cannabidiol-dimethylheptyl
CBGluc	Click beetle green luciferase
CBluc	Click beetle luciferase
CBN	Cannabinol
CBR	Cannabinoid receptor
CBRluc	Click beetle red luciferase
CCR2	CC chemokine receptor 2
CHO	Chinese hamster ovary
CINV	Chemotherapy-induced nausea and vomiting
cLogP	Octanol-water partition coefficient
Cluc	Cypridina luciferase
CNS	Central nervous system
COPD	Chronic obstructive pulmonary disease
CREA	Creatinine
cryo-EM	Cryo-electron microscopy
C-term	C-terminus
CysLTR2	Cysteinyl leukotriene receptor 2
DAGL	Diacylglycerol lipase
Δ^9-THC	Delta-9-tetrahydrocannabinol
dpm	Disintegrations per minute
DTT	DL-dithiothreitol
EA	Enzyme acceptor
ebBRET	Enhanced bystander BRET
EC_{50}	Functional potency
eCBs	Endocannabinoids
ECL	Extracellular loops
ECS	Endocannabinoid system
ELISA	Enzyme-linked immunosorbent assay
E_{max}	Efficacy
ERK1/2	Extracellular signal-related kinase 1 and 2
ET	Engagement time
EYFP	Enhanced yellow fluorescent protein
f.c.	Final concentration
FAAH	Fatty-acid amide hydrolases
FCS	Fetal calf serum
FDA	Food and Drug Administration
Fluc	Firefly luciferase

FSK	Forskolin
GDC	Genomic Data Commons
GDP	Guanosine diphosphate
GFP	Green fluorescent protein
GIRK	G protein-coupled Inward Rectifying K+-channel
Gluc	Gaussia luciferase
GPCR	G protein-coupled receptor
GRK	G protein-coupled receptor kinase
GTP	Guanosine triphosphate.
HBSS	Hank's Balanced Salt Solution
HEK293T	Human embryonic kidney 293 T
HER2	Human epidermal growth factor 2
hiPSC	Human induced pluripotent stem cells
Hsp90	Heat shock protein 90
IBMX	3-isobutyl-1-methylxanthine
IBS	Inflammatory bowel disease
IC_{50}	Half-maximal inhibitory concentration
ICL	Intracellular loops
IR_{50}	Kinetic potency
IR_{max}	Kinetic efficacy
K_D	Kinetic affinity
K_i	Inhibition constant
KO	Knockout
k_{obs}	Observed association rate constant
k_{off}	Dissociation rate constant
k_{on}	Association rate constant
LgBiT	Large BiT
LIMBA	Lipid Membrane Binding Assay
LogD	Octanol/water distribution coefficient
MAGL	Monoacylglycerol lipase
MAPK	Mitogen-activated protein kinase
MS	Multiple sclerosis
NAL	Neutral allosteric ligands
NAM	Negative allosteric modulator
NanoBiT	NanoLuc Binary Technology
NAPE-PLD	*N*-acylphosphatidylethanolamine-specific phospholipase D
NFAT	Nuclear factor of activated T cells
NLuc	NanoLuc luciferase
NSB	Non-specific binding
N-term	N-terminus
NTS	Neurotensin
NTSR1	Neurotensin receptor 1
PAM	Positive allosteric modulator
PAMPA	Passive membrane permeability assay
PAS	Periodic Acid-Schiff
PBS	Phosphate buffered saline
PD	Parkinsons's disease
PDB	Protein Data Bank
PDE	Phosphodiesterase
PK	Prolink
PMSF	Phenylmethylsulfonyl fluoride
PTM	Post-translational modification
PTX	Pertussis Toxin
Rab	Rab-GTPase
Rluc	Renilla luciferase
RMSD	Root mean square deviation
RT	Residence time
rt	Room temperature
$S1P_1$	Sphingosine-1-phosphate receptor 1
SD	Standard deviation
SEM	Standard error of the mean
SmBiT	Small BiT
SRF	Serum response factor
TB	Total binding
TBS	Tris-buffered saline
TBST	Tris-buffered saline TWEEN 20

TM	Transmembrane
TMB	3,3',5,5'-Tetramethylbenzidine
UVM	Uveal melanoma
WT	Wild type
YFP	Yellow fluorescent protein