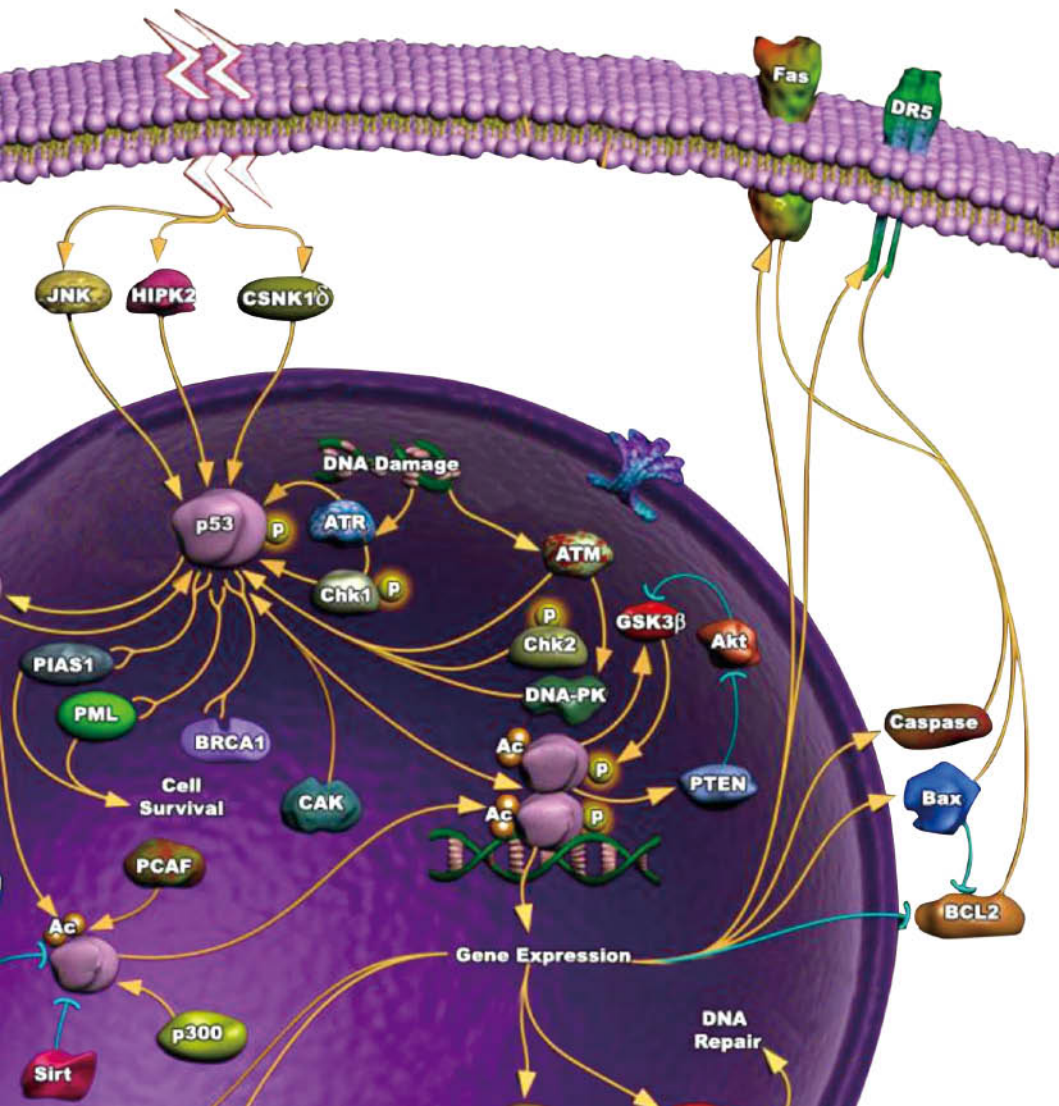


Inhibitors of Signaling Pathways



About us

Target Molecule Corp. (TargetMol) is a global high-tech enterprise, specializing in chemical and biological research products and service to meet the research needs of global customers. With the help of fast and efficient global supply chain, professional and rigorous procurement process and timely dynamic news of products, you will save more time with less cost and lead in drug discovery and screening.

Our Product Portfolio

Inhibitor

Targetmol supplies **over 3000** compounds used in the study of cell signaling pathways and drug discovery. Track the latest scientific research and promptly offer the newest and most popular inhibitors.

- 50~100 new inhibitors per month.
- NMR and HPLC validated to ensure high purity.
- Above 95% compounds are in stock.



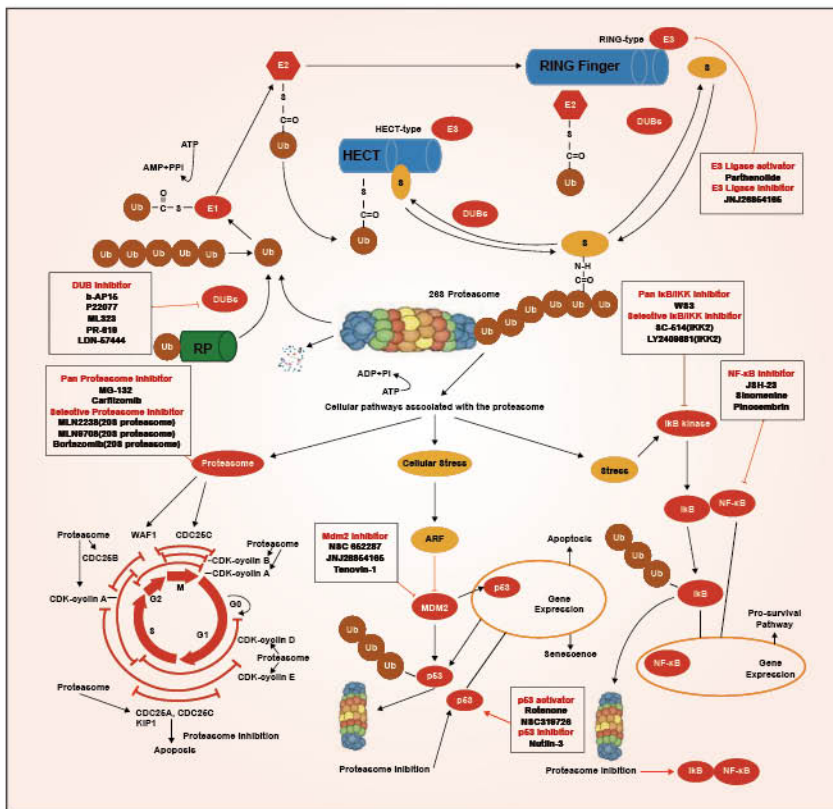
Compound Libraries

Targetmol provides **more than 32** types of compound libraries. They are available for **cell induction, signaling pathway and HTS**. Compound libraries are useful professional tools for drug discovery and new indication research. Customers can customize individual libraries by selecting specific molecules, quantities, concentrations, and format.

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Proteases/Proteasome






Hot targets in Proteases/Proteasome signaling pathway

Cysteine protease	PAI
DPP-4	Protease
HIV protease	Protease-Activated Receptor
MMP	Proteasome
p97	Serine Protease

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Chromatin/Epigenetics

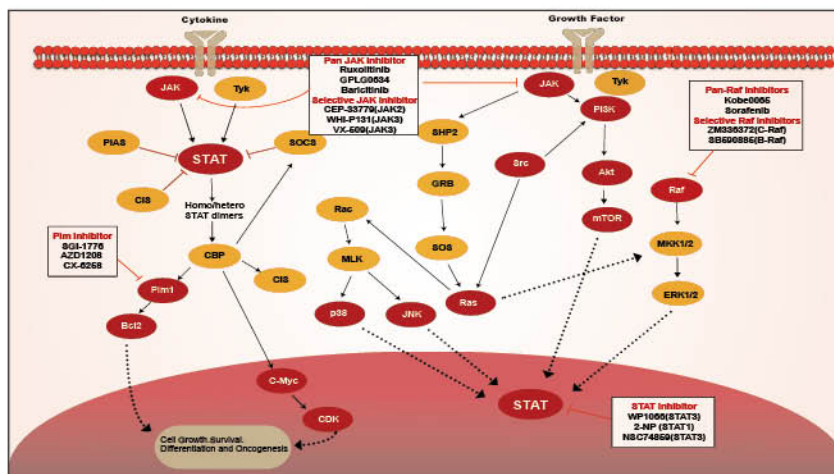
<p>Pan Inhibitor GSK-525762A Selective Inhibitor (-)-JQ-1(BRD4) RVX-208(BRD2) UNC119(L3MBTL3)</p>	<p>Epigenetic Writer</p> 	<p>Epigenetic Reader</p> <p>Recruitment</p> <p>Alteration of DNA-templated Processes</p> 	<p>Epigenetic Eraser</p> <p>Removal of Modification</p> 
<p>Histone Acetylation</p> <p>Histone Acetyltransferase Inhibitor C646</p>	<p>Histone Acetyltransferase(HATs) GCN5/PCAF GNAT Related(e.g., HAT1) Myst Family(e.g. TIP60, HBO1) cBP/p300 Family TAF250 Family Src Family (e.g. Src3, Src1)</p>	<p>Bromodomain Proteins e.g. most HATs BET Family (BRD2, BRD, BDF) Brg-1</p>	<p>Histone Deacetylases (HDACs) Class I: HDAC1-3 HDAC8 Class IIa: HDAC4-5 HDAC7 HDAC9 Class IIb: HDAC6 HDAC10 Class III: Sirt 1-7 Class IV: HDAC11</p>
<p>Histone Methylation</p> <p>Histone Methyltransferase Inhibitor GSK503 EP26438 unc0379 EP2005687 BRD4770</p>	<p>Lysine Methyltransferase (KMTs) KMT1A—1F(e.g. G9a, GLP) MLL Family(e.g. NSD1) DOT1/DOT1L KMT3A-KMT3C KMT5A, KMT5B KMT6/EZH2 KMT7/SET7&9 KMT8/RI21</p>	<p>Royal Family -Chromo-domain Proteins e.g. HP-1 like -Tudor-domain Proteins, e.g. SMN -PHD Proteins, e.g. CBD, ING2, DNMT3L</p>	<p>Lysine Demethylases (KDMs) LSD1/KDM JHDM/Jumonji</p>
<p>Histone Phosphorylation</p> <p>DNA Methyltransferase Inhibitor myricetin Dacogen Zebularine Lomeguatrib</p>	<p>Serine/Threonine Kinases e.g. MST, AMPK Haspin, VRK, Aurora B PKCo, PKCβ, MSK1/2, JNK</p>	<p>14-3-3 Proteins Seven Isoforms: theta, gamma, zeta, eta, epsilon, beta, mu</p>	<p>Protein Phosphatases e.g. Serine/Threonine Phosphatases (PPP2CA, PPP2CB, PPP1CC) Protein Phosphatase 1D Eye-absent Homologues(EYA1-3)</p>
<p>DNA Methylation</p>	<p>DNMT1 DNMT3A DNMT3B</p>	<p>MeCP2 MBD1-4</p>	<p>Not Clear</p> <p>—only putative targets so far</p>

Hot targets in Chromatin/Epigenetics signaling pathway

HDAC	Aurora Kinase
PARP	Epigenetic Reader Domain
Sirtuin	Histone Acetyltransferase
HIF	Histone Demethylase
Pim	Histone Methyltransferase
JAK	DNA Methyltransferase

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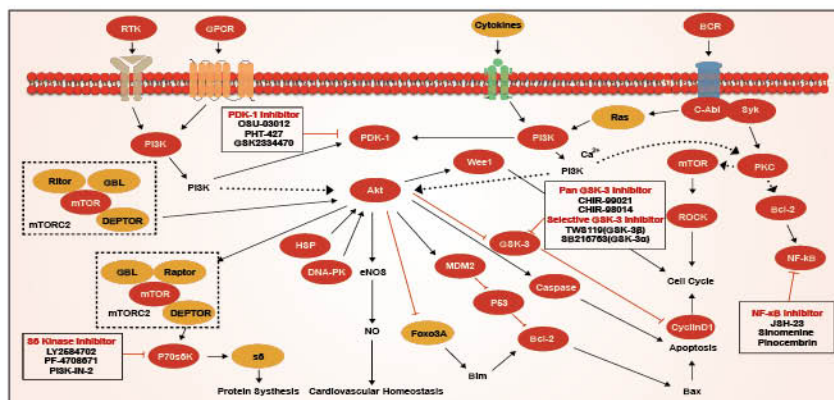
JAK/STAT Signaling



Hot targets in JAK/STAT Signaling pathway

JAK	STAT	EGFR	Pim
-----	------	------	-----

PI3K/Akt/mTOR Signaling

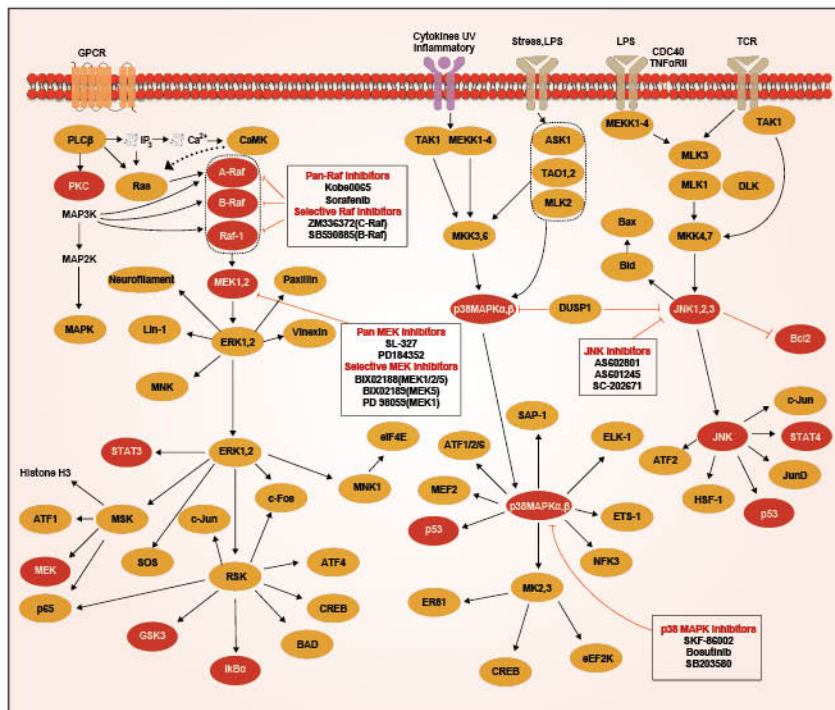


Hot targets in PI3K/Akt/mTOR Signaling signaling pathway

Akt	AMPK	GSK-3	ATM/ATR	mTOR
S6 Kinase	PI3K	DNA-PK	PDK	

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MAPK Signaling

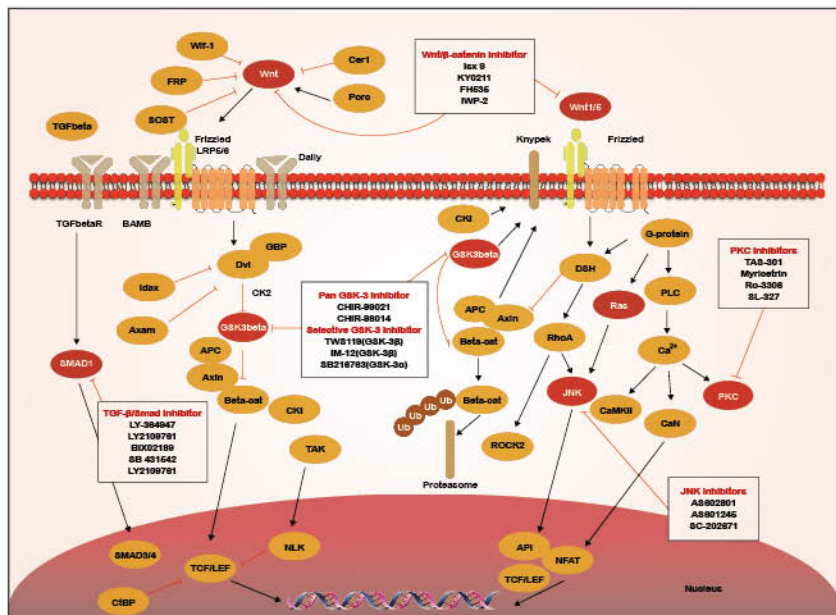


Hot targets in MAPK Signaling signaling pathway

MEK	JNK
Ras	NO
Raf	MAPK
cAMP	p38 MAPK
ERK	

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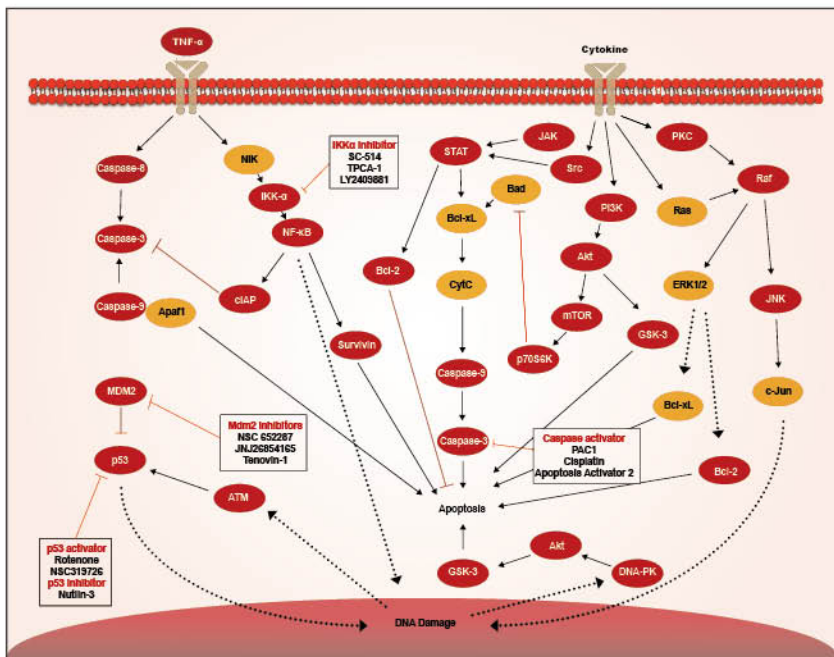
Stem Cell



Hot targets in Stem Cell signaling pathway

GSK-3	TGF-beta/Smad
JAK	Wnt/beta Catenin
STAT	Gamma-secretase
iPSCs	Hedgehog/Smoothened
ROCK	

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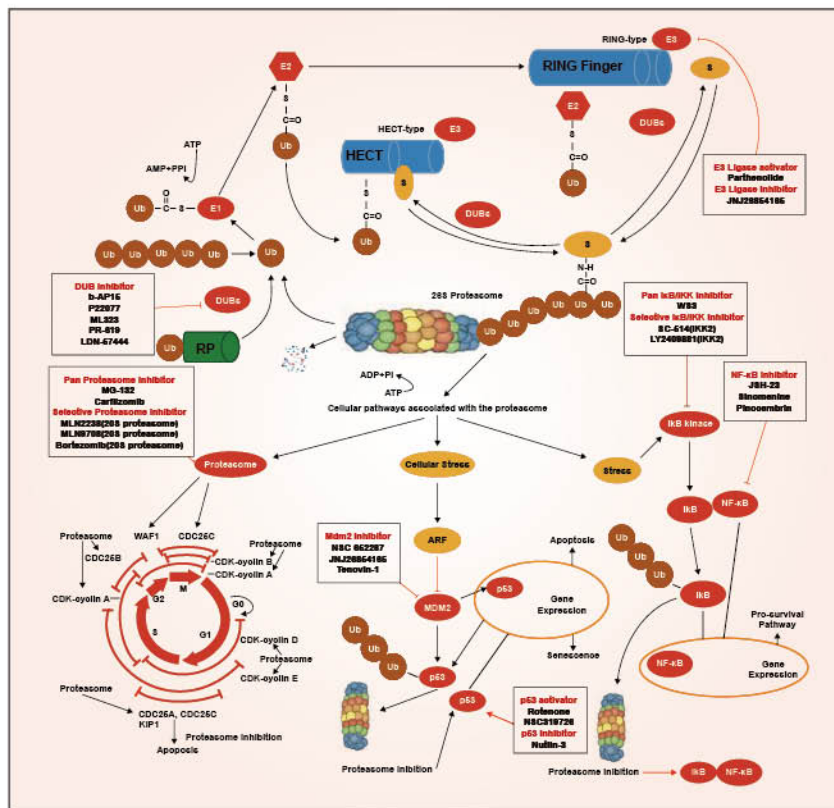


Hot targets in Apoptosis signaling pathway

Bcl-2	PERK
IAP	Survivin
p53	Caspase
PKD	TNF-alpha
Mdm2	Apoptosis inducer

Drug Screening Expert (Inhibitors, Natural Compounds, Libraries)

Ubiquitination

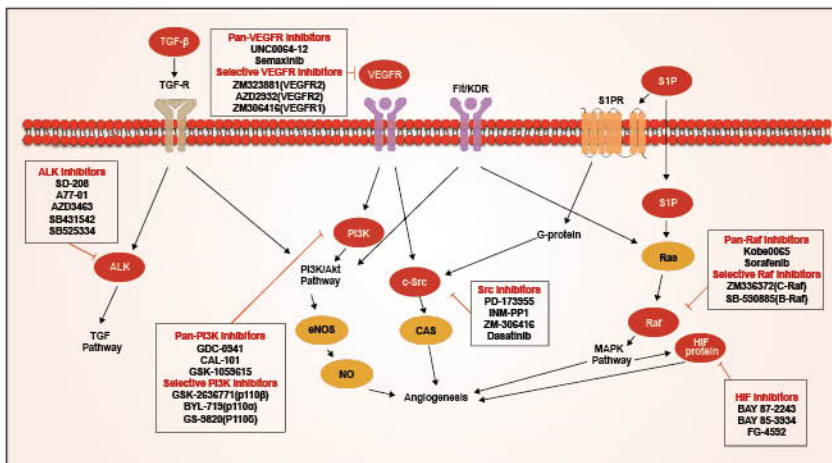


Hot targets in Ubiquitination signaling pathway

DUB	Pannexin
E3 ligase	Proteasome
Autophagy	

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Angiogenesis

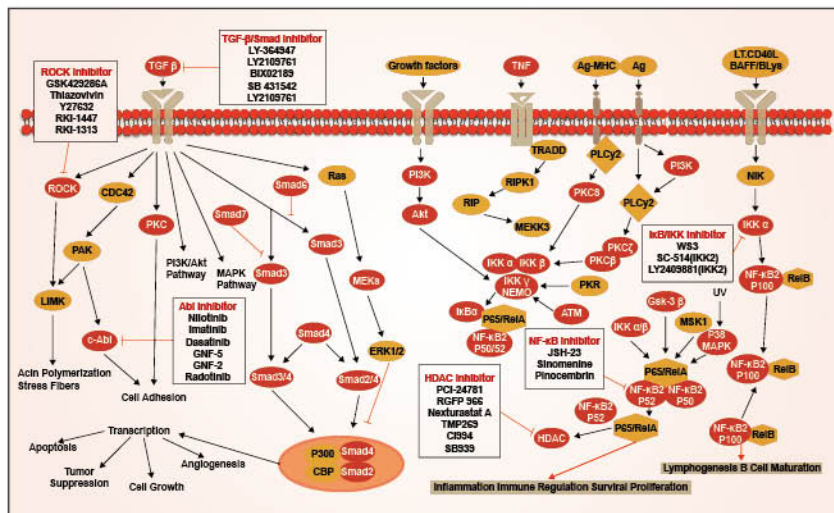


Hot targets in Angiogenesis signaling pathway

VEGFR	JAK
EGFR	PDGFR
HER2	FLT3
FGFR	BTK
Bcr-Abl	FAK
RAAS	Src
Syk	Egr-1
TXA2	AGTR
Thrombin	Plasminogen
Prothrombin	Thrombopoiesis
Thrombopoietin receptor	Antiplatelet aggregation

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Immunology/Inflammation

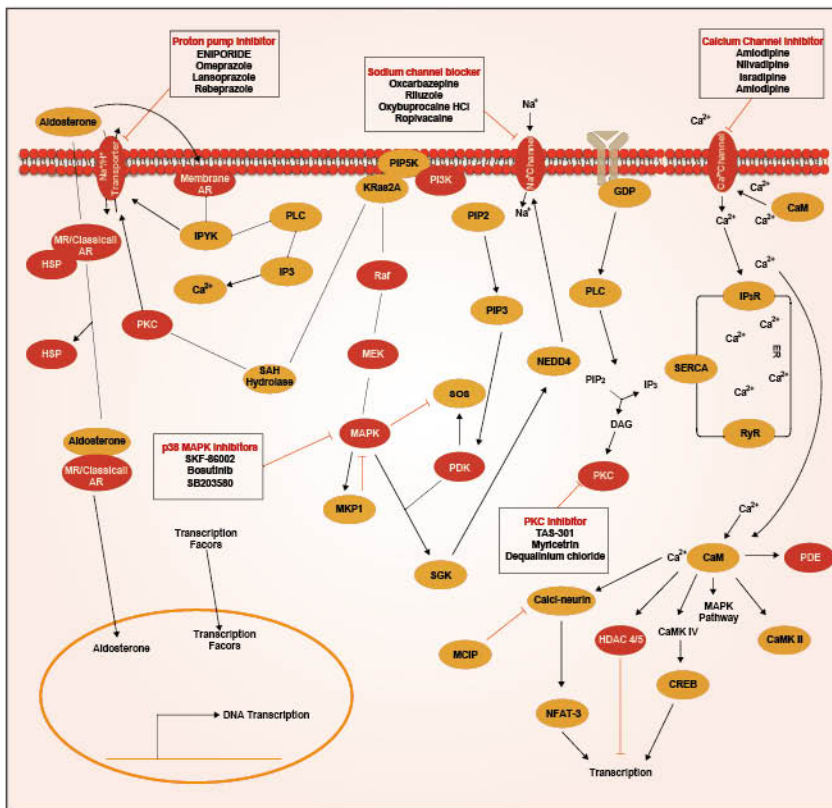


Hot targets in Immunology/Inflammation signaling pathway

NF- κ B	HNF
I κ B/IKK	PIKfyve
ROS	IL receptor
TLR	PGE
Thioredoxin-1	Protein S100
CysLTR	TGF-beta/Smad
eIF-2 α	Anti-inflammation
eIF4E/eIF4G	Immunologic Factors
NOS	

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Membrane Transporter/Ion Channel



Hot targets in Membrane Transporter/Ion Channel signaling pathway

ATPase	Proton Pump	CFTR
Taste receptor	CRM1	Sodium Channel
NPR1	Calcium Channel	P-gp
Potassium Channel	SGLT	NKCC cotransporter
TRPV	Translocator protein	TRP Channel
Adiponectin receptor		

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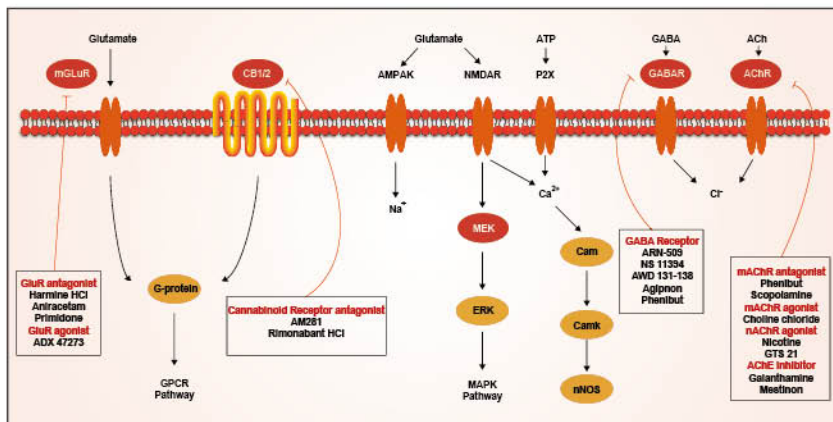
The diagram illustrates the DNA damage response and cell cycle regulation pathways. Key components and their interactions are as follows:

- Double-strand breaks** activate **ATM** and **ATR**.
- Alkylating agents** activate **ATM** and **ATR**.
- Replication stress** activates **ATR** and **ATM**.
- ATM** phosphorylates **BRCA1**, **c-Abl**, **H2AX**, and **CHK2**.
- ATR** phosphorylates **CHK1** and **CHK2**.
- CHK1** phosphorylates **CHK2** and **CDC25**.
- CHK2** phosphorylates **p53**.
- p53** activates **JAK** and **p38**.
- JAK** activates **p39** and **p37**.
- p38** activates **p35** and **p33**.
- p39** activates **p37** and **p35**.
- p37** activates **p35** and **p33**.
- p35** activates **p33** and **p29**.
- p33** activates **p29** and **p27**.
- p29** activates **p27** and **p25**.
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- p15** activates **p13** and **p11**.
- p13** activates **p11** and **p9**.
- p11** activates **p9** and **p7**.
- p9** activates **p7** and **p5**.
- p7** activates **p5** and **p3**.
- p5** activates **p3** and **p1**.
- p3** activates **p1** and **p0**.
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- p-130** activates **p-131**.
- <

Rac1	Topoisomerase
DNA-PK	DNA interaction
Mutagens	DNA/RNA Synthesis
Telomerase	Reverse Transcriptase
DNA gyrase	Nucleoside Antimetabolite/Analogue
DNA Alkylating	

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Neuroscience

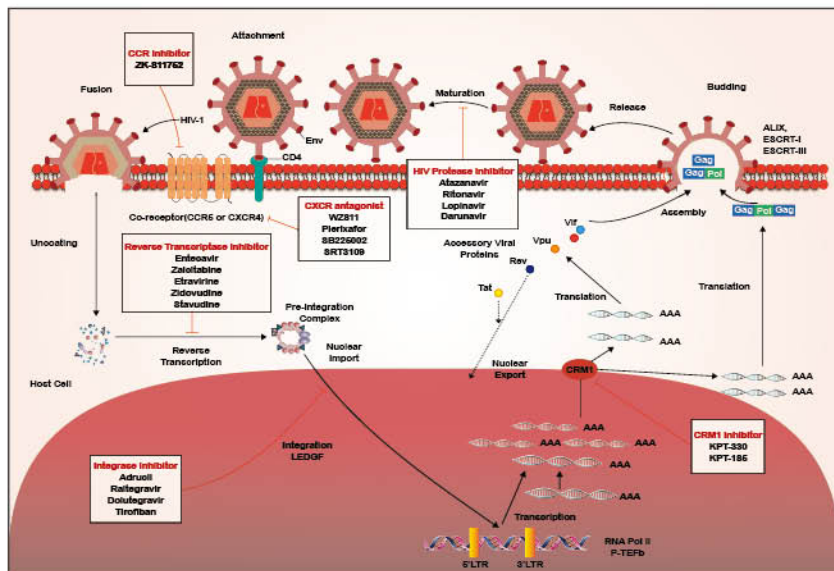


Hot targets in Neuroscience signaling pathway

5-HT Receptor	GABAR
Dopamine receptor	LRRK2
Gamma-secretase	GluCl channel
Beta Amyloid	Histamine Receptor
AChE	Dopa decarboxylase
BDNF	Melatonin receptor
CaMK	NMDA Receptor
ChE	NPY Receptor
COX	Opioid Receptor
CerK	P2 Receptor
GluR	Substance P
AChR	Phosphatidylcholine
AMPA	

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Microbiology & Virology



Hot targets in Microbiology & Virology signaling pathway

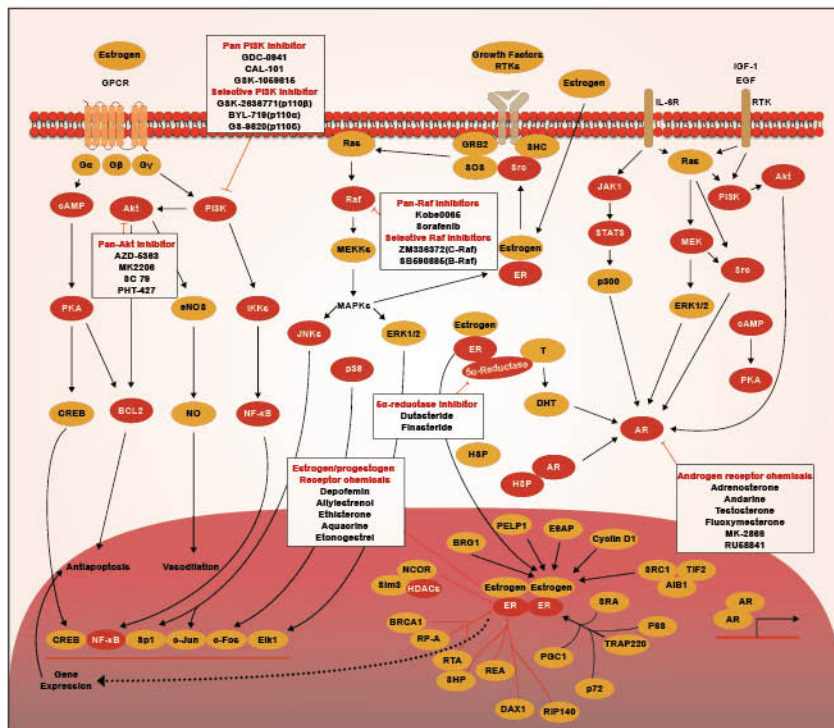
Antibiotic	HCV
Antibacterial	HIV
Antifungal	HSV
Antiparasitic	Rhinovirus
Antiprotozoal	Tuberculosis
Antiviral	Influenza virus
CMV	Integrase
HCMV	

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Endocrinology/ Hormones

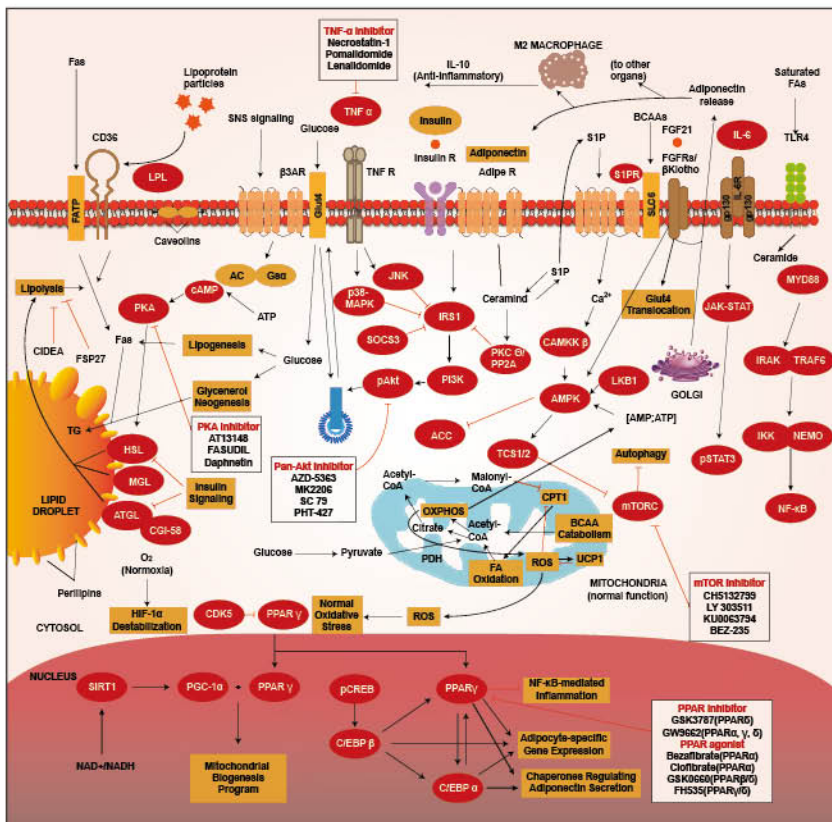


Hot targets in Endocrinology/ Hormones signaling pathway

GPR	Estrogen Receptor	Corticosteroid Receptor
RAAS	Androgen Receptor	Estrogen/progesterone Receptor
Annexin A	Progesterone receptor	Glucocorticoid Receptor
Antithyroid	Thyroid hormone receptor	Mineralocorticoid Receptor
Aromatase	Vasopressin Receptor	Prostaglandin Receptor
Noradrenaline	Somatostatin receptor	

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Metabolism



Hot targets in Metabolism signaling pathway

MAO	Xanthine oxidase	Phospholipase	Casein Kinase
CYP	AhR	ULK1 kinase	Ferroptosis
PDE	Bilition	Transferase	Farnesoid X receptor
PPAR	CCK	Thiamine	HMG-CoA Reductase
RXR/RAR	CETP	GLUT	Fatty acid synthase
Factor Xa	DHFR	IDO	Farnesyltransferase
FAAH	EP4	Lipid	Farnesyl pyrophosphate synthase
EPAC			

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Enzyme

Carbonic anhydrase	Hydrogenase	PP2A
Cathepsin K	Hydrolase	Reductase
LXR	Hydroxylase	Squalene epoxidase
CzcO-like	sGC	Tyrosinase
DHPS	Oxidosqualene cyclase	VKOR
Endopeptidase	Peroxiredoxin-5	
Hexokinase	Phosphorylase	

Others

ACCase inhibitor	MCT	RAGE
Adrenodoxin	MELK	Ryanodine receptor
AGE	mTOT	SAA
APN	Oct3/4	SGK1;SGK2
ATX	PCSK9	SRPK1
BMI-1	Pepsin	TTR
Calcineurin phosphatase	PFKFB3	Xylose isomerase
CART	p-HBH	α -glucosidaseOthers
DYRK	Phytoestrogen	Others
Lysozyme	PPM1D	
MALT1	Purine nucleoside phosphorylase	

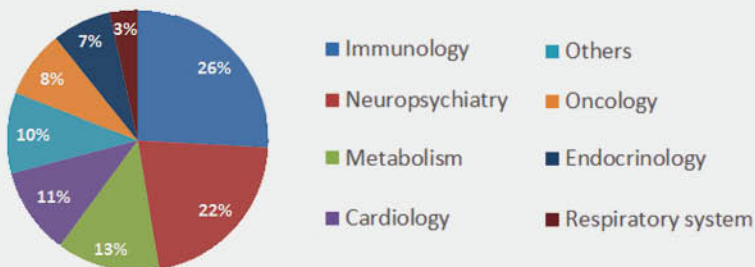
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- Identify new targets for previously discovered drugs;
- Bioactivity and safety confirmed by clinical trials;
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Research fields:



Database Contains:

- CAS, Chemical name, 3D structure, Formula, Solubility;
- Bioactivity, Targets, IC₅₀ Value, References, Clinical Data;
- COA, MSDS, Datasheet, NMR, LCMS, HPLC, etc.

Headquarters



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