

A

Formula to calculate the SI (Sensitivity Index)

p1: The proliferation rate of GSCs treated with targeted agent

cc: The proliferation rate of GSCs treated with vehicle

cp: the proliferation rate of GSCs treated with combination

p2: the proliferation rate of GSCs treated with temozolomide

Effect of targeted agent
p1/cc

Effect of TMZ
p2/cc

Expected combined effect: EE

Observed combined effect: OE

p1/cc

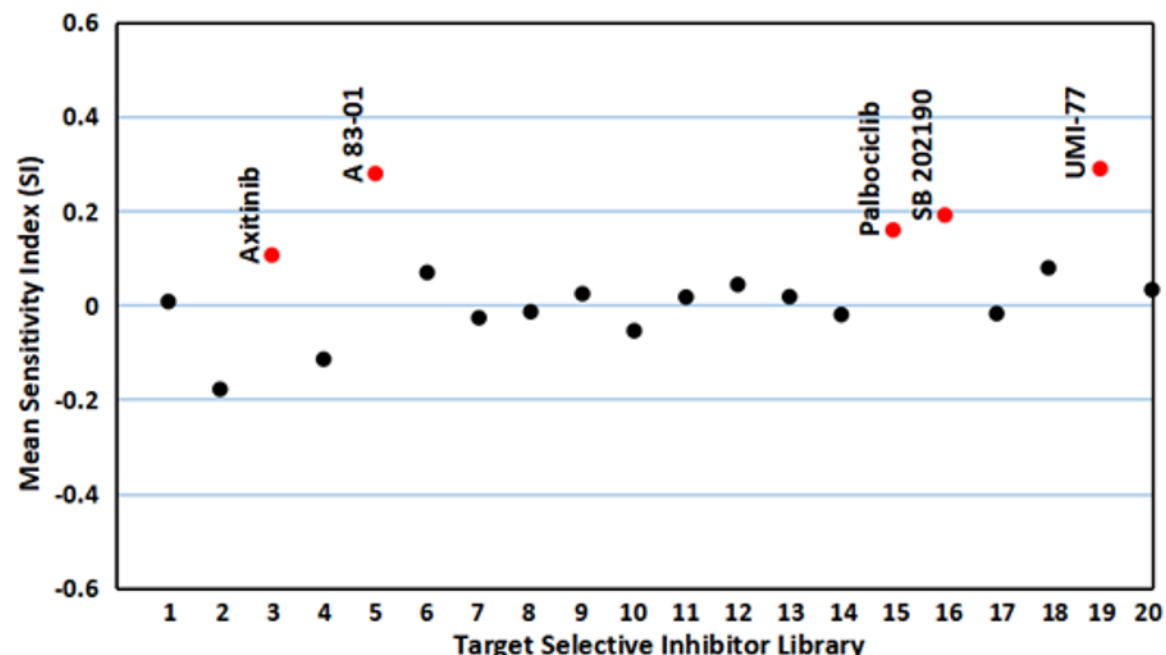
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p2/cc

cp/cc

SI = EE - OE > 0: synergistic
Range: -1 to 1 < 0: antagonistic

B



C

	Targeted agent	SI value	Target(s)	Pathway
1	UMI-77	0.28972	Mcl-1	Apoptosis
2	A 83-01	0.27939	ALK5, ALK4, ALK7	Others
3	SB 202190	0.19123	p38 α , p38 β 2	MAPK-p38
4	Palbociclib	0.15962	CDK4, CDK6	Cell cycle
5	Axitinib	0.10635	VEGFR1-3, PDGFR β	tyrosine kinase (RTK) signaling pathway