

**Supplementary Table S1.** PubMed Search Terms and Results for the *Cucurbitaceae* Family.

Search Terms in PubMed	Results	Relevant	Notes	# of Relevant Papers: Elimination based on detailed paper review
Cucurbitacin protein trafficking	213	Too many irrelevant (plant-based mostly)	Therefore, focused the search to humans.	
Cucurbitacin protein trafficking human	8	6		5
Cucurbitacin human motor protein	1	Irrelevant		
Cucurbitacin human dynein	0			
Cucurbitacin human kinesin	0			
Cucurbitacin human microtubules	13	ALL Relevant		12
Cucurbitacin human actin	37	36 Relevant	Many articles are overlapping within these categories	28
Cucurbitacin human vimentin	3	ALL Relevant		3
Cucurbitacin human lamin	0			
Cucurbitacin human golgi	0			
Cucurbitacin human endoplasmic reticulum	3	ALL Relevant		2
Cucurbitacin human lysosome	5	ALL Relevant		3
Cucurbitacin human signaling	204	Did not assess (too many) - therefore focused search terms - see below	Many articles are overlapping within these categories	
Cucurbitacin human MAPK	28			18
Cucurbitacin human AKT	41			23
Cucurbitacin human PI3K	18			12
Cucurbitacin human JAK	30			17
Cucurbitacin human STAT	25			10
Cucurbitacin human EGFR	18			11
Cucurbitacin human adenylyl cyclase	1			1
Cucurbitacin human phospholipase C	0			
Cucurbitacin human GPCR	0			