# Med&Omix

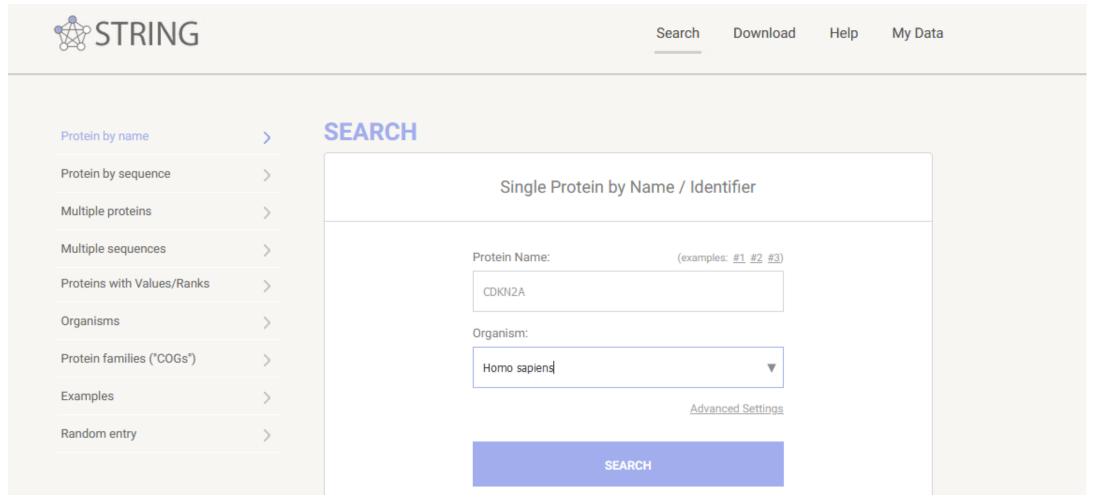
Third Meeting STRING-ing

# Previously Discussed in Med&Omix Meeting

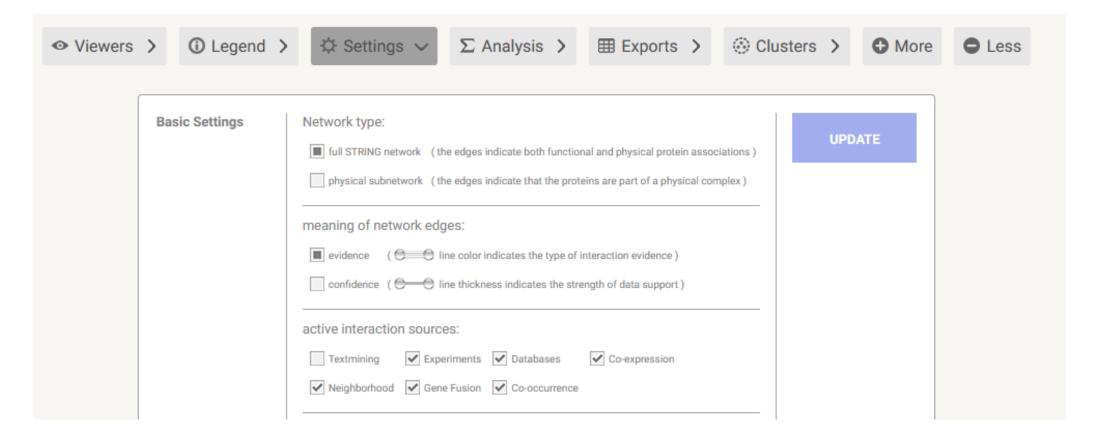
- How to use STRING
- How to apply on our hypothesis

So, I basically will do simple STRING protein-protein inetarcaction query-ing

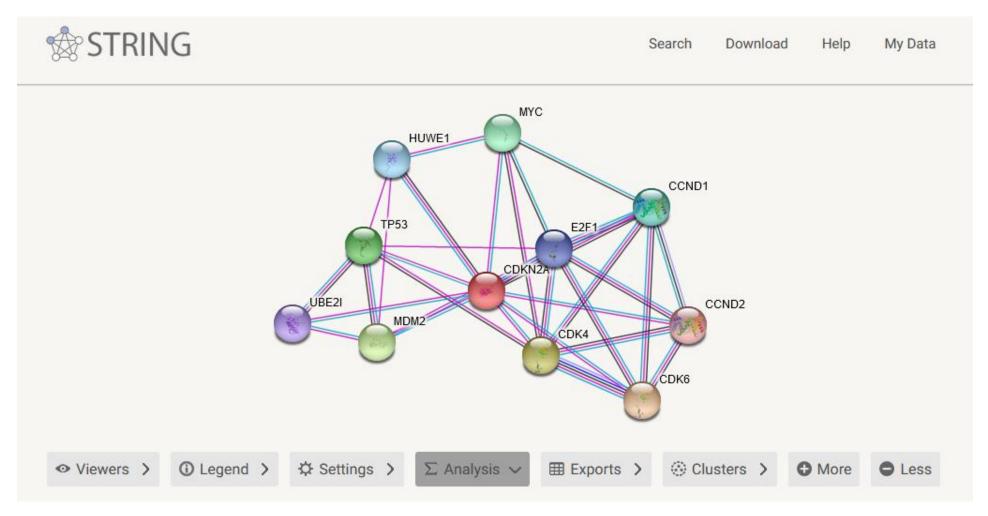
### How to Find the Connections of a Protein)



### Remove «Text-Mining»



# Small Interaction Hub of our precious Protein



#### See the Processes&Functions Involved etc.

Network Stats					
	number of nodes: 11 number of edges: 32	expected number of edges: 13 PPI enrichment p-value: 9.07e-06			
avg	average node degree: 5.82 local clustering coefficient: 0.759		ur network has significantly more interactions than expected (what does that mean?)		
Functional enr	ichments in your network	Note: some enric	hments may l	be expected here ( <u>wh</u> )	
				explain colum	
>	Biological Process (Gene Ontology)				
GO-term	- description	count in network	<b>♦</b> strength	false discovery rate	
GO:0072717	Cellular response to actinomycin d	2 of 3	3.07	0.00039	
GO:0071494	Cellular response to uv-c	2 of 7	2.71	0.0010	
GO:0045656	Negative regulation of monocyte differentiation	2 of 7	2.71	0.0010	
GO:1990000	Amyloid fibril formation	2 of 13	2.44	0.0025	
GO:0090399	Replicative senescence	2 of 13	2.44	0.0025	
				(more)	
>	Molecular Function (Gene Ontology)				
GO-term	description	count in network	<i>strength</i>	false discovery rate	
GO:0097371	MDM2/MDM4 family protein binding	2 of 9	2.6	0.0064	
GO:0019789	SUMO transferase activity	3 of 22	2.38	0.00049	
GO:0097718	Disordered domain specific binding	3 of 34	2.2	0.00082	
GO:0016538	Cyclin-dependent protein serine/threonine kinase regulator	or 4 of 48	2.17	4.66e-05	
GO:0004693	Cyclin-dependent protein serine/threonine kinase activity	2 of 30	2.07	0.0304	
				(more)	
	fbdincaslan				

23/4/2022

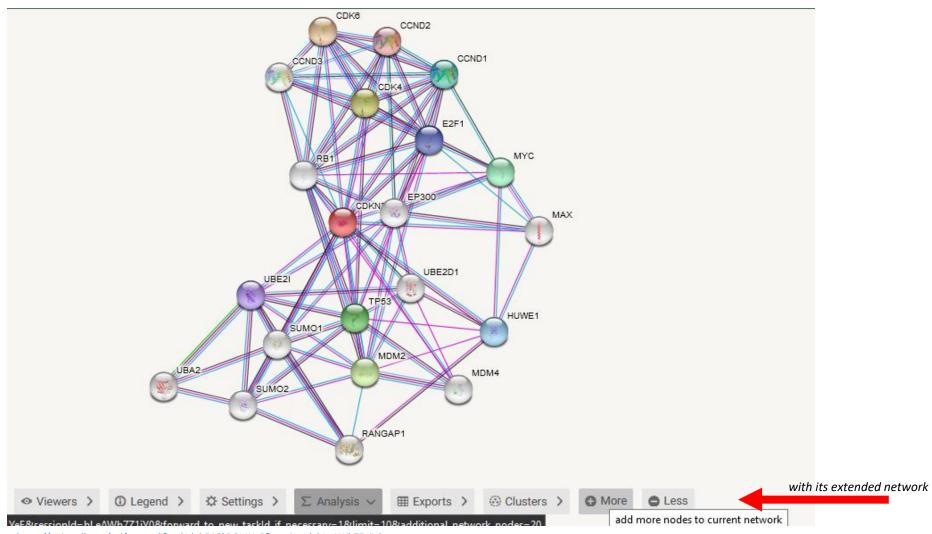
tbdincasian

#### All Virus Releated Connections

~	KEGG Pathways			
pathway	description	count in network	<i> </i>	false discovery rate
hsa05219	Bladder cancer	7 of 41	2.48	7.42e-15
hsa05220	Chronic myeloid leukemia	8 of 75	2.28	1.30e-15
hsa05218	Melanoma	7 of 72	2.24	2.42e-13
hsa05214	Glioma	7 of 72	2.24	2.42e-13
hsa04115	p53 signaling pathway	7 of 72	2.24	2.42e-13
hsa05223	Non-small cell lung cancer	6 of 68	2.2	2.79e-11
11000 1120	obiquitii iiiodiatoa proteorjoio	0 01 100	1.0	0.00012
hsa05165	Human papillomavirus infection	7 of 325	1.58	1.98e-09

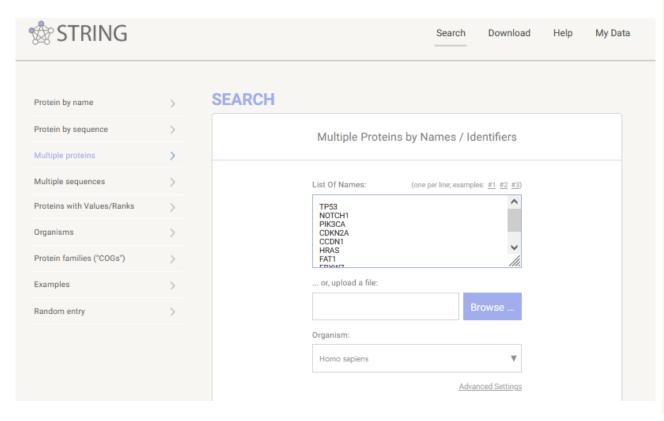
~	Annotated Keywords (UniProt)			
keyword	description	count in network	<i> </i>	false discovery rate
KW-0435	Li-Fraumeni syndrome	2 of 3	3.07	0.00048
KW-0195	Cyclin	2 of 30	2.07	0.0119
KW-0132	Cell division	5 of 379	1.37	0.00027
KW-0656	Proto-oncogene	3 of 226	1.37	0.0149
KW-0131	Cell cycle	8 of 644	1.34	1.48e-07
KW-0160	Chromosomal rearrangement	3 of 307	1.24	0.0333
KW-0945	Host-virus interaction	4 of 534	1.12	0.0120

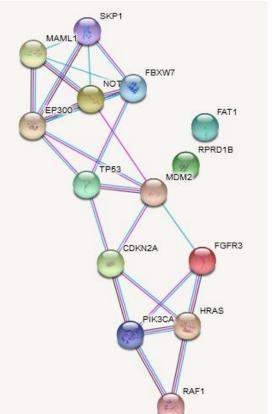
### Ta-Da!

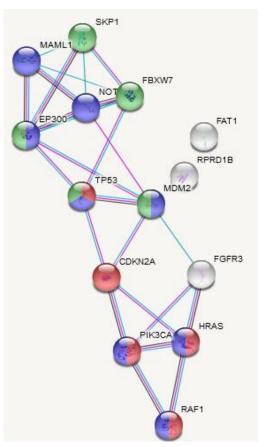


https://string-db.org/cgi/network?taskId=b5A0kPGL1YeE&sessionId=bLeAWh7Z1jY0

# Alternatively







https://string-db.org/cgi/network?taskId=bUHrseQT2AU7&sessionId=bUKic79icSsy

https://string-db.org/cgi/network?taskId=bUHrseQT2AU7&sessionId=bUKic79icSsy