

Narrative-based computational modelling of the Gp130/JAK/STAT signalling pathway

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id	description	react	alt
STAT3 unbinding and homodimerization			
41	if gp130.Y767 is phospho and STAT3 is in 3 and STAT3 is not dimer and gp130 is bound and gp130.SOCS3 is not bound and STAT3.gp130 is bound and STAT3.LIFR is not bound and STAT3.OSMR is not bound and STAT3.Y705 is phosphorylated then gp130 unbinds STAT3 on gp130	19	
42	if LIFR.Y981 is phospho and STAT3 is in 3 and STAT3 is not dimer and LIFR is bound and LIFR.SOCS3 is not bound and STAT3.LIFR is bound and STAT3.gp130 is not bound and STAT3.OSMR is not bound and STAT3.Y705 is phosphorylated then LIFR unbinds STAT3 on LIFR	19	
43	if OSMR.Y917 is phospho and STAT3 is in 3 and STAT3 is not dimer and OSMR is bound and OSMR.SOCS3 is not bound and STAT3.OSMR is bound and STAT3.gp130 is not bound and STAT3.LIFR is not bound and STAT3.Y705 is phosphorylated then OSMR unbinds STAT3 on OSMR	19	
44	if STAT3.Y705 is phospho and STAT3 is not dimer and STAT3.gp130 is not bound and STAT3.LIFR is not bound and STAT3.OSMR is not bound then STAT3 homodimerizes	20	
STAT3 shuttling			
45	if STAT3 is in 3 and STAT3 is dimer and STAT3.gp130 is not bound and STAT3.LIFR is not bound and STAT3.OSMR is not bound then STAT3 relocates to 4	21	
46	if STAT3 is in 4 and STAT3 is dimer and STAT3.PIAS3 is not bound then STAT3 dephospho on Y705	22	
47	if STAT3 is in 4 and STAT3 is dimer and STAT3.Y705 is not phospho then STAT3 dehomodimerizes	23	
48	if STAT3 is in 4 and STAT3 is not dimer and STAT3.Y705 is not phospho then STAT3 relocates to 3	24	