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

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1 1		1.
id description	react	alt
STAT3 unbinding and homodimerization	<u>,</u>	
41 if gp130.Y767 is phospho and STAT3 is in 3 and STAT3 is not di	mer 19	
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		
42if LIFR.Y981 is phospho and STAT3 is in 3 and STAT3 is not dir		
and LIFR is bound and LIFR.SOCS3 is not bound and STAT3.LI	FR	
is bound and STAT3.gp130 is not bound and STAT3.OSMR is no	ot	
bound and STAT3.Y705 is phosphorylated then LIFR unbinds		
STAT3 on LIFR		
43if OSMR.Y917 is phospho and STAT3 is in 3 and STAT3 is not	19	
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 th	nen	
OSMR unbinds STAT3 on OSMR		
44 if STAT3.Y705 is phospho and STAT3 is not dimer and	20	
STAT3.gp130 is not bound and STAT3.LIFR is not bound and		
STAT3.OSMR is not bound then STAT3 homodimerizes		
STAT3 shuttling		-
45 if STAT3 is in 3 and STAT3 is dimer and STAT3.gp130 is not bo	und 21	
and STAT3.LIFR is not bound and STAT3.OSMR is not bound the		
STAT3 relocates to 4		
46if STAT3 is in 4 and STAT3 is dimer and STAT3.PIAS3 is not	22	
bound then STAT3 dephospho on Y705		
47if STAT3 is in 4 and STAT3 is dimer and STAT3.Y705 is not	23	
phospho then STAT3 dehomodimerizes		
48 if STAT3 is in 4 and STAT3 is not dimer and STAT3.Y705 is not	24	
phospho then STAT3 relocates to 3		