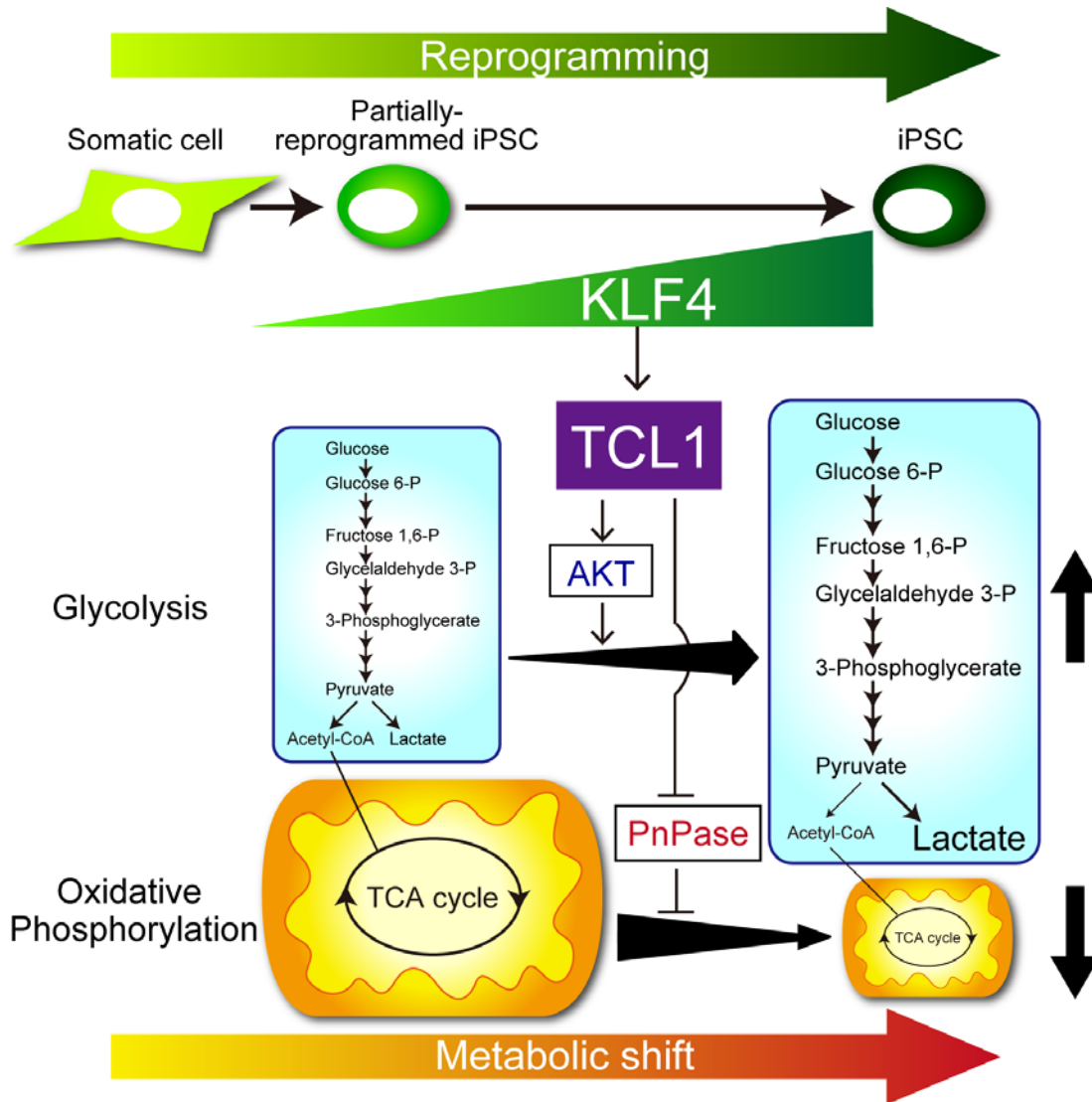


# A role for KLF4 in promoting the metabolic shift via TCL1 during induced pluripotent stem cell generation



We screened for genes regulated by KLF4 and identified *Tcl1* as its major target gene, which promotes the metabolic shift from oxidative phosphorylation to glycolysis. KLF4-induced TCL1 activates AKT to enhance glycolysis and counteracts PnPase to diminish oxidative phosphorylation, thereby facilitating the progression of reprogramming toward full pluripotency.

References: Nishimura et al.,  
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Contact: Prof. K Nishimura,  
Prof. K Hisatake