

T

p27^{Kip1}

Ubiquitylation

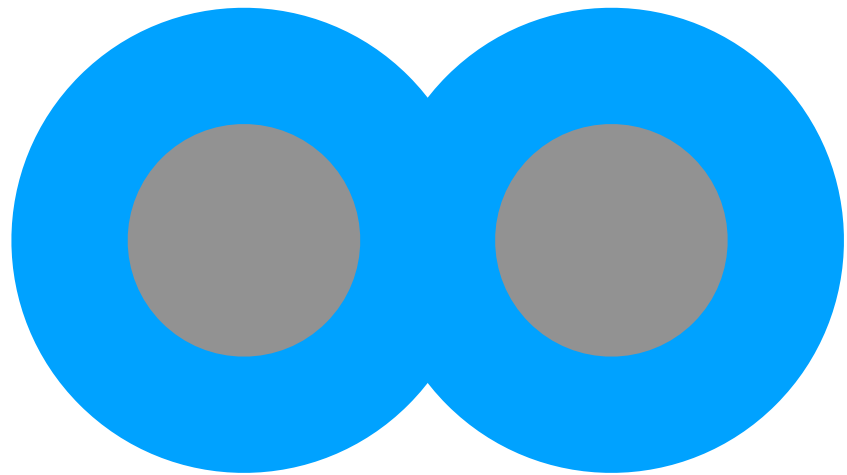
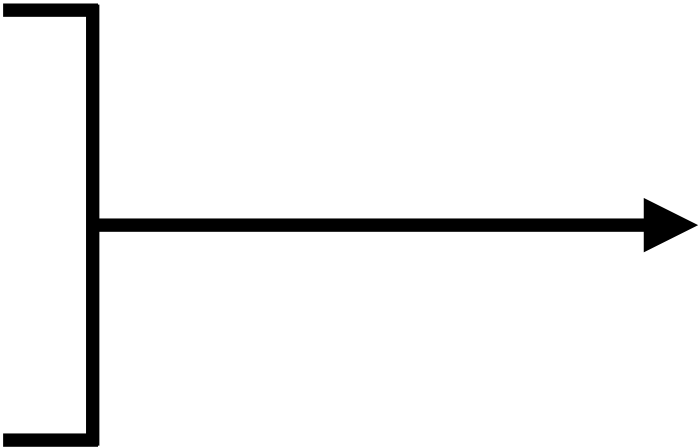


Cyclin

CDK

Cyclin

CDK



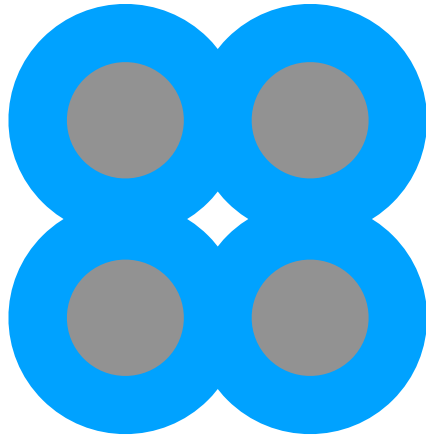
Cell Cycle

T

p27^{Kip1}

Ubiquitylation





Unchecked Cell Proliferation



Oncogenic Factor

Inhibitor





Background

Project Description

Results

Conclusion

Inhibiting p27^{Kip1} ubiquitylation has beneficial effects

D. O. Morgan, *Nature* **374**, 131-134 (1995)

Y. Masui & C. L. Markert, *J. Exp. Zool.* **177**, 129-145 (1971)

M. Malumbres & M. Barbacid, *Nat. Rev. Cancer* **9**, 153-166 (2009)



Stimulates Cell Division



Inhibits Cell Division





Ungeranova, D. et al. *J. Biol. Screen.* 18, 910–920 (2013)

Jones S, Thornton JNM, *Proc Natl Acad Sci U S A* 93, 113-120 (1996)

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Y. Masui & C. L. Markert, *J. Exp. Zool.* 177, 129-145 (1971)

Malmgren & M. Barba, *Nat. Rev. Cancer* 9, 153-166 (2009)



Small molecules are insufficient to inhibit Cks1-Skp2