

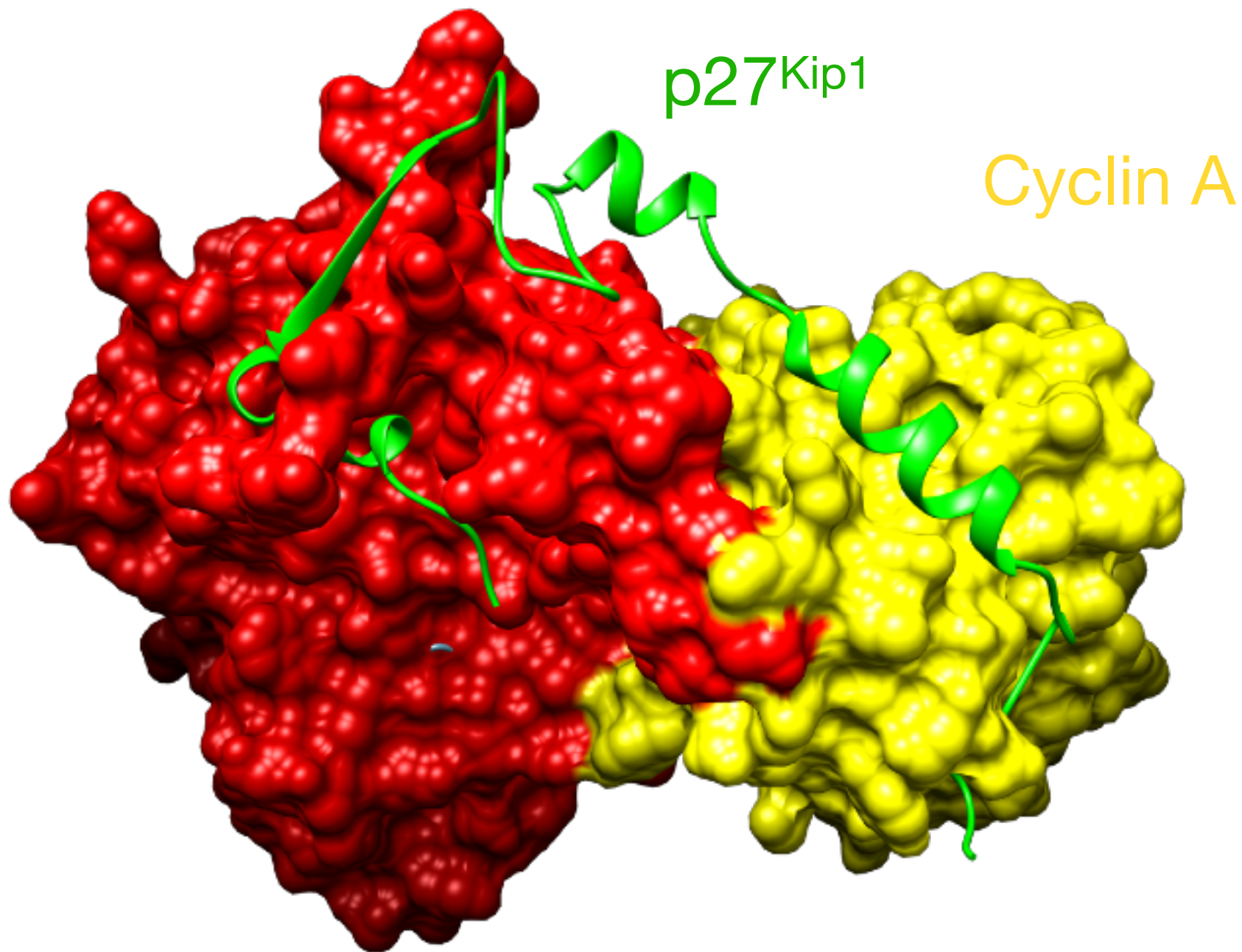
p27^{Kip1} is important for regulating cell cycles

Background

Project Description

Results

Conclusion



PDB: 1JSU

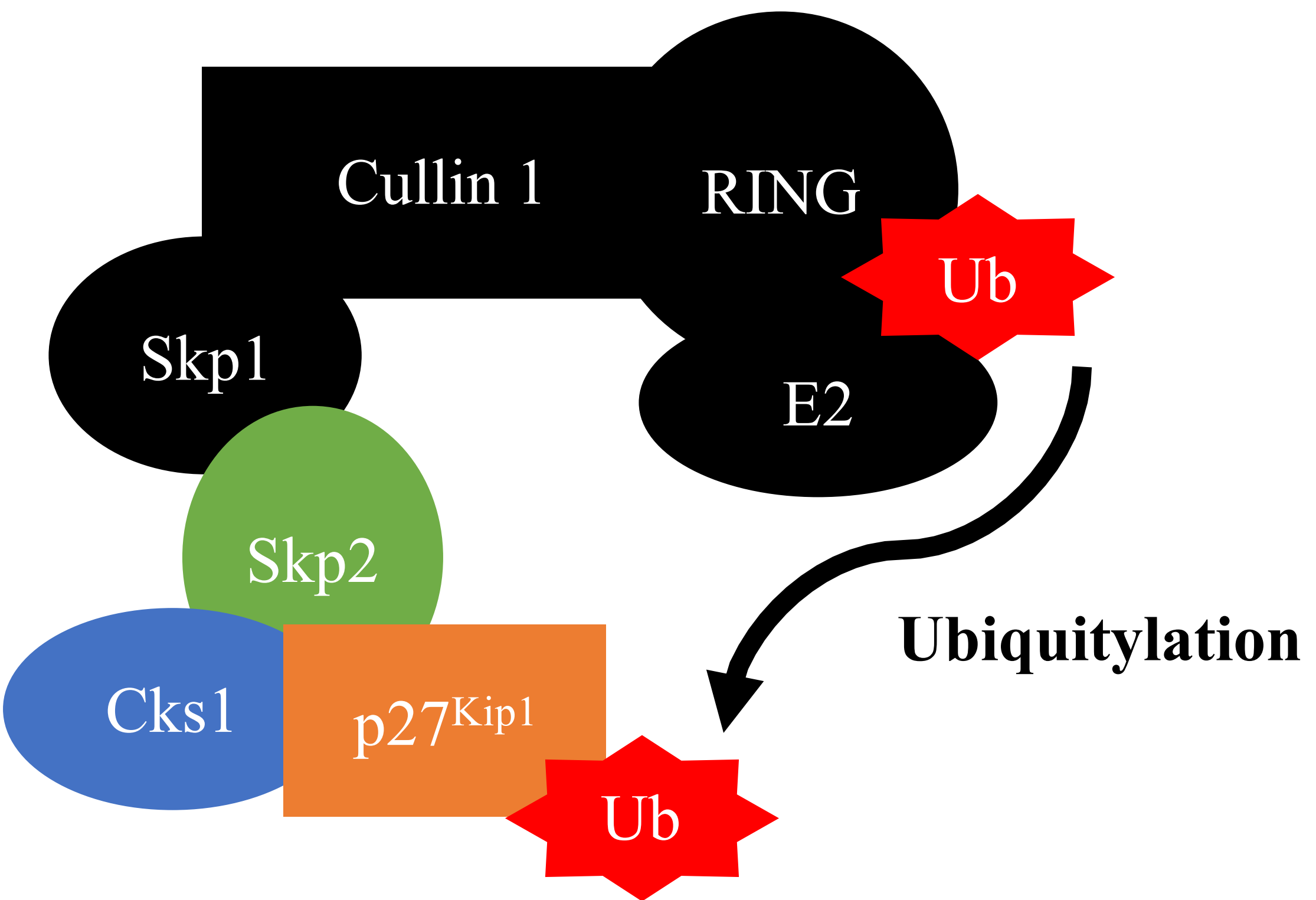
Cyclin-dependent-kinase-2

R. Alicia, et al., Nature 382, 425-331 (1996)

- p27^{Kip1} is a cyclin-dependent-kinase inhibitor that leads to cell-cycle arrest.

- p27^{Kip1} is often referred to as the “tumor suppressor”.

- In cancer cells, p27^{Kip1} is frequently inactivated.



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cyclerearrest.

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p27^{Kip1} is degraded by a ubiquitin-dependent process

D.Frescas & M.Paganò, *Nat.Rev.Cancer* 8, 438-449 (2008)

A.C. Carrano, et al., *Nat. Cell Biol.* 1, 193-199 (1999)

J. Slingerland & M. Pagano, *J. Cell. Physiol.* 183, 10-17 (2000)

Skp2: phosphatase-kinase-associated protein 2

Cks1:Cyclin-dependent kinases regulatory subunit 1