

43. The cell cycle

1 unit, Andy Koff, October 30, 2025

If you have forgotten the basics of the cell cycle (i.e., Restriction point/START) it is worth glancing through any cell biology textbook or the Weinberg cancer text book for a relevant primer.

Papers:

Discussion Paper:

Cornwell JA, Crncec A, Afifi MM, Tang K, Amin R, Cappell SD. Loss of CDK4/6 activity in S/G2 phase leads to cell cycle reversal. *Nature*. 2023 Jul;619(7969):363-370. doi: 10.1038/s41586-023-06274-3. Epub 2023 Jul 5. Erratum in: *Nature*. 2024 Jun;630(8018):E14. doi: 10.1038/s41586-024-07666-9. PMID: 37407814; PMCID: PMC10338338.

Review: Sharpless NE and Sherr CJ. Forging a signature of in vivo senescence. *Nature Reviews Cancer*. 15: 397-408

Klein M, Kovatcheva M, Davis L, et al., CDK4/6 Inhibitors: The Mechanism of Action May Not Be as Simple as Once Thought. *Cancer Cell*, 2018, 34, 9-20.