

38. RNAi and miRNAs

1 unit, Eric Lai, October 23, 2025

Discussion Paper:

A ubiquitin ligase mediates target-directed microRNA decay independently of tailing and trimming.

Han J, LaVigne CA, Jones BT, Zhang H, Gillett F, Mendell JT. *Science*. 2020 Dec 18;370(6523):eabc9546.

doi: 10.1126/science.abc9546. Epub 2020 Nov 12. PMID: 33184234

Review Paper:

Shang R, Lee S, Senavirathne G, Lai EC. microRNAs in action: biogenesis, function and regulation.

Nat Rev Genet. 2023 Jun 28. doi: 10.1038/s41576-023-00611-y. Epub ahead of print. PMID:

37380761.

Background Paper:

The ZSWIM8 ubiquitin ligase mediates target-directed microRNA degradation.

Shi CY, Kingston ER, Kleaveland B, Lin DH, Stubna MW, Bartel DP. *Science*. 2020 Dec

18;370(6523):eabc9359. doi: 10.1126/science.abc9359. Epub 2020 Nov 12. PMID: 33184237