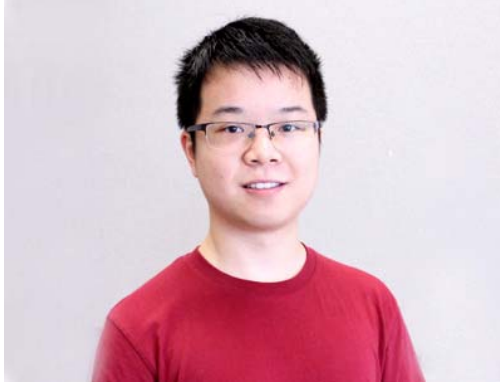


ADARs act as potent regulators of circular transcriptome in cancer



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I started my PhD journey when I joined A/P Polly Chen Leilei's lab at 2017, and completed my PhD oral defense in September 2021. During the four years in NUS, I explored the basic RNA biology in the context of cancer, with support from the department and SoM.

I would like to highlight the dedicated support and guidance given by my supervisor, Associate Professor Chen Leilei. She is a caring and patient mentor with great enthusiasm for science and inspired me during my PhD study. She, as a role model, has shown to me what a good scientist and supervisor should be.

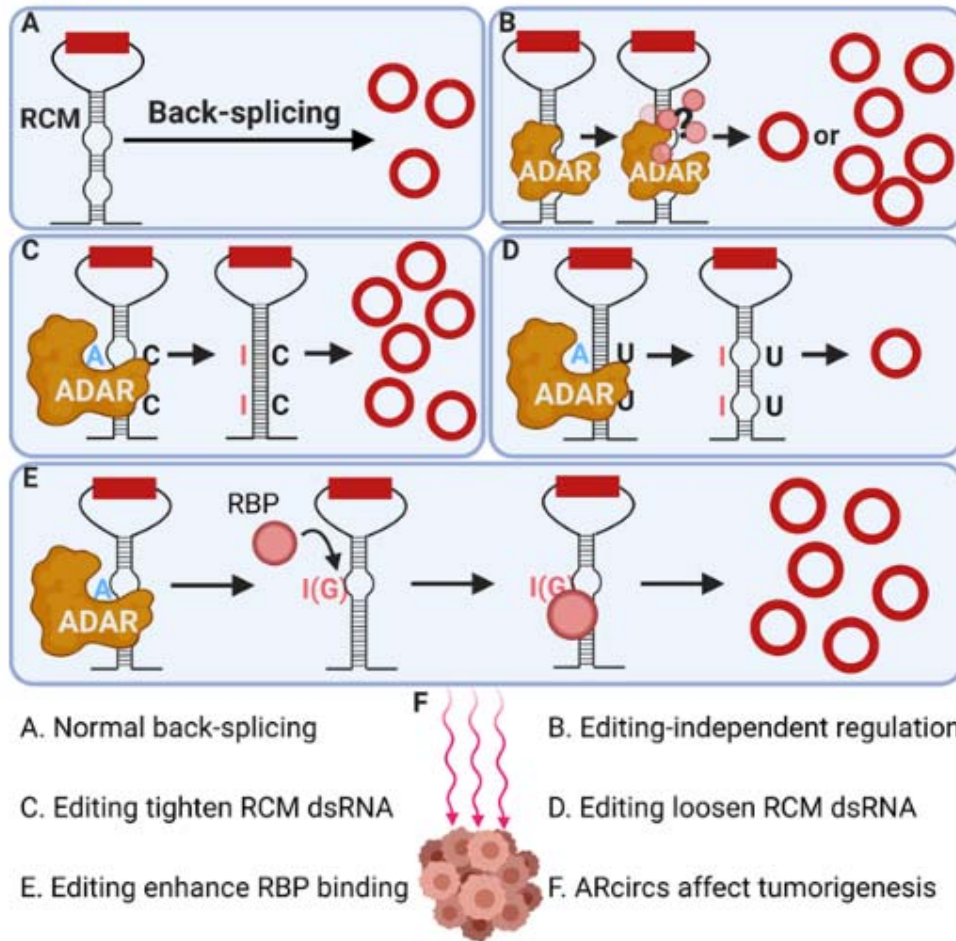
This award is an encouragement and affirmation for my work during my PhD. With this honor, I will continue to explore the fascinating unknown world of cancer biology.

*Shen H, An Ö, Ren X, Song Y, Tang SJ, Ke X, Han J, Tay DJ, Ng VHE, Bellido Molias F, Pitcheshwar P, Leong KW, Tan KK, Yang H, **Chen L**. ADARs act as potent regulators of circular transcriptome in cancer. *Nature Communications*, 13(1):16 pages Number ARTN 1508 21 Mar 2022.*

Full article reference: <https://www.nature.com/articles/s41467-022-29138-2>

A short description: Previous studies have shown that aberrantly expressed circRNAs contribute to many diseases, including cancers, but precise mechanisms underlying the regulation of circRNA biogenesis in cancer cells remain unknown. In a novel step forward, Polly Chen and her team established the bidirectional regulatory role of Adenosine deaminases acting on RNA (ADARs) on circRNA. They found that ADARs-regulated circRNAs are ubiquitous in multiple cancers, and play critical roles in cancer development.

(Figure 1)



Source: A/Prof CHEN Leilei, Polly
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