Circular RNAs in the pathogenesis of cancer

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Propositions

Belonging to the PhD thesis

Circular RNAs in the pathogenesis of cancer

Are the interactions with miRNAs relevant?

1. Intronic circRNAs are mainly localized in the nucleus and play a crucial role in regulating parental gene transcription. (***Chapter 2***)

2. Relying on the identification of back-splice junction reads results in an underestimation of circRNA complexity. (***Chapter 3***)

3. Full-length sequencing of circRNAs is essential to accurately define their composition. (***Chapter 3***)

4. For most loci showing differential expression for both the circular and linear transcripts the patterns were consistent, suggesting common regulatory mechanisms. (***Chapter 3***)

5. Deletion of the 5' PVT1 region including exon 6 leads to a loss of circPVT1 expression. (***Chapter 4***)

6. LncPVT1 and circPVT1 can promote the proliferation of B-cell lymphoma independent of their potential to bind miRNAs. (***Chapter 4***)

7. CircZDHHC11 strongly affects the growth of Burkitt lymphoma independent of its ability to bind miR-150. (***Chapter 5***)

8. The functional effect of circ-NOL10 on breast cancer is achieved by sponging miR-149-5p, miR-330-3p, and miR-452-5, and thereby preventing inhibition of PDCD4. (***Chapter 6***)

9. The harder you work, the luckier you get. (***Gary Player***)

10. Life is a balance between holding on and letting go. (***Rumi***)

11. The quest for a PhD involves more than just academics; it is also a journey of self-discovery and personal development.