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## 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.