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## The roles of noncoding RNAs in B-cel lymphomas

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## PROPOSITIONS

Belonging to the PhD thesis

### **The Roles of Noncoding RNAs in B-cell Lymphomas**

1. High-throughput based gain- and loss-of-function screens are effective tools to identify B-cell lymphoma cell growth-related non-coding RNAs (this thesis).
2. MiRNA expression patterns in Burkitt lymphoma and germinal center B-cells are quite similar, especially for the highly abundant miRNAs (this thesis).
3. MiR-378a-3p is a highly abundant miRNA with increased expression in Burkitt lymphoma which promotes cell growth by regulating targets such as IRAK4, FOXP1, MNT and JPX (this thesis).
4. MiR-26b-5p suppresses Burkitt lymphoma cell growth via targeting, amongst others, KPNA2 which leads to decreased MYC expression (this thesis and Jie L et al. Cancer Research, 2018).
5. Combining Ago2 RNA-Immunoprecipitation (RIP) with a genome wide CRISPR/Cas9 dropout screen is a powerful approach to identify miRNA targets with effects on B-cell lymphoma cell growth (this thesis).
6. MAFG-AS1, a MYC-induced lncRNA with a predominant nuclear localization, promotes Burkitt lymphoma cell growth (this thesis).
7. Non-coding RNAs show great potential as prognostic markers, biomarkers, or therapeutic targets (Eleni A et al. Nature, 2018).
8. Being prepared before raining and digging a well before thirsty (Zhuzi's Family Motto).  
宜未雨而绸缪,毋临渴而掘井。 - 《朱子家训》
9. Don't forget why we started because we went too far (Kahlil Gibran).  
不要因为走得太远, 而忘了我们为什么出发。 - 纪伯伦
10. Where there is a will, there is a way; what you have strived, will be finally repaid (Pu Songling).  
有志者事竟成, 破釜沉舟, 百二秦关终属楚; 苦心人天不负, 卧薪尝胆, 三千越甲可吞吴。 - 蒲松龄

Fubiao Niu  
14 October 2020