Cite this as: Ri-sheng QUE, Cheng LIN, Guo-ping DING, Zheng-rong WU, Li-ping CAO, 2016. Increasing the immune activity of exosomes: the effect of miRNA-depleted exosome proteins on activating dendritic cell/cytokine-induced killer cells against pancreatic cancer. *Journal of Zhejiang University-Science B (Biomedicine & Biotechnology).* **17**(5):352-360. http://dx.doi.org/10.1631/jzus.B1500305

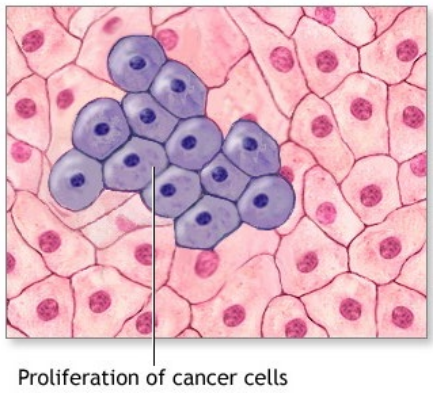
Increasing the immune activity of exosomes: the effect of miRNA-depleted exosome proteins on activating dendritic cell/cytokine-induced killer cells against pancreatic cancer

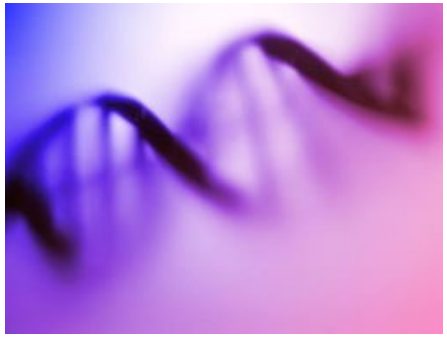
Key words: Pancreatic cancer, Exosome, Dendritic cells, Cytotoxic T lymphocytes, MicroRNAs

Research Summary

This review mainly focused on the exosomal protein and depleted exosomal miRNAs and summarized the key roles they played in the following aspects:

- **increasing the immune activity of exosomes for activating DC/CIKs against pancreatic cancer.**





Innovation points

- **This study was to separate exosome protein to increase the potential value of exosomes.**

- **After depletion of miRNAs by lysis and ultrafiltration, ultrafiltered exosomal lysate showed higher activating activity.**

- **Tumor-killing capacity of DC/CIKs can be significantly elevated when stimulated by ultrafiltered exosomal lysate.**

Figure 4