

Functional Analysis of miRNAs in Tumor Endothelial Cells

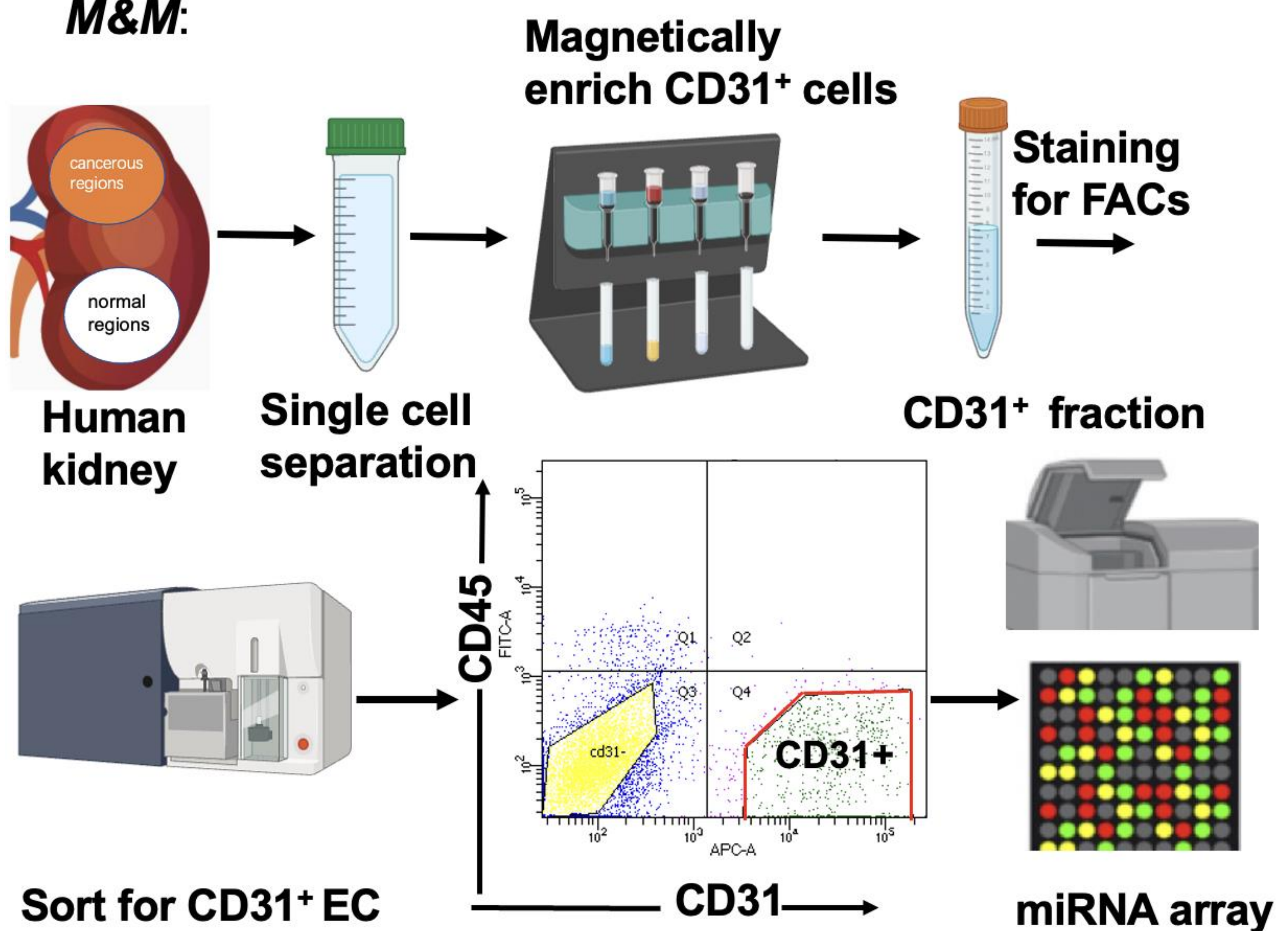
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Vision for Future Society

◆ A deeper understanding of tumor endothelial cell biology and microRNA regulation will drive the development of cancer therapies. By targeting the molecular mechanisms of tumor angiogenesis, such research aims to reduce the societal burden of cancer and ultimately help build a healthier, longer-living population and a more sustainable healthcare system.

M&M:



- Among the differentially expressed microRNAs (miRNAs), one was markedly upregulated in tumor endothelial cells (TECs) compared to normal endothelial cells (NECs).
- Overexpression of this miRNA in NECs significantly enhanced cell proliferation, migration, and invasion.
- These results indicate that this miRNA contributes to the pro-angiogenic phenotype of TECs by modulating the expression of key regulators of endothelial cell function.
- Ongoing studies aim to further elucidate the detailed molecular mechanisms underlying these effects.