Group Project

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This document provides an introduction to R Markdown, argues for its benefits, and presents a sample manuscript template intended for an academic audience. I include basic syntax to R Markdown and a minimal working example of how the analysis itself can be conducted within R with the `knitr` package.

Keywords: Atherosclerosis, Wnt Signalling Pathway, beta-catenin, Shear Stress, Human Umbilical Vein Endothelial Cells (HUVECs), Angiopoietin-2, Axin, Thrombospondin-1.

Introduction

Li et al. (2014)

Methods

HUVECs

Orbital Shaker

Plates were placed on an orbital shaker to rotate at 210 rpm for 72 hours.

RNA Extraction

cDNA Synthesis

Verso cDNA Synthesis Kit

qPCR

RNEasy Mini Kit

Results

Discussion

Acknowledgements

References

Li, Rongsong, Tyler Beebe, Nelson Jen, Fei Yu, Wakako Takabe, Michael Harrison, Hung Cao, et al. 2014. "Shear Stress-Activated Wnt-Angiopoietin-2 Signaling Recapitulates Vascular Repair in Zebrafish Embryos." *Arteriosclerosis, Thrombosis, and Vascular Biology* 34 (10): 2268–75.