**Guided Studies Project Summer 2023**

*Genomic Data Acquisition for Hypertension*

Khan Inan

Hypertension is a chronic disease that affects many people. It’s on the rise due to eating habits, such as fast and processed foods. Most drugs target the Renin-Angiotensin Aldosteron system. Your task is to obtain and aggregate data for the gene targets/biomarkers for Hypertension. Each line of the file will contain key information about the gene/biomarkers for Hypertensive drugs. Below is a list of headers of data that will populate the file.

* Gene
* Mutation\_Remark: Does the gene/biomarker consist of an amino acid change, exon deletion, or intergenic snp, etc.
* System(Pathway info)
* Drug\_Combination(single or multiple drug)
* Actionability Rank: How does the drug perform? Is it toxic, effective or anywhere in between?
* Drug name
* Primary\_Outcome\_Measure: Does it significantly bring down blood pressure and get it under control? There will be varying degrees of outcome measure.
* Primary or Secondary Hypertension.
* Cell location(vascular, hemodynamic, Liver, etc)
* Drug Class: ACE inhibitor, Beta Blocker, Calcium Channel Blocker, Angiotensin II Receptor Blockers.

Tools for gathering information consist of genomic, proteomic, clinical, journals and scripts. Bibliography is included in the literature review and final submission.