

Anatomical Structures - CT-Pop Cell Types Stacked Bar Graphs - Notebook

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1 Environment

```
library(tidyr)
library(plyr)
library(dplyr)
library(magrittr)
library(ggplot2)
library(stringr)

options(scipen = 999)

knitr::opts_chunk$set(
  echo = FALSE,
  message = FALSE,
  warning = FALSE,
```

```
fig.align='center',  
fig.pos='H',  
fig.path = "../output/barplots/",  
dev = c("pdf"),  
dpi=500  
)
```

2 Load Data

3 Preparing Data

4 Subsetting data by Organ

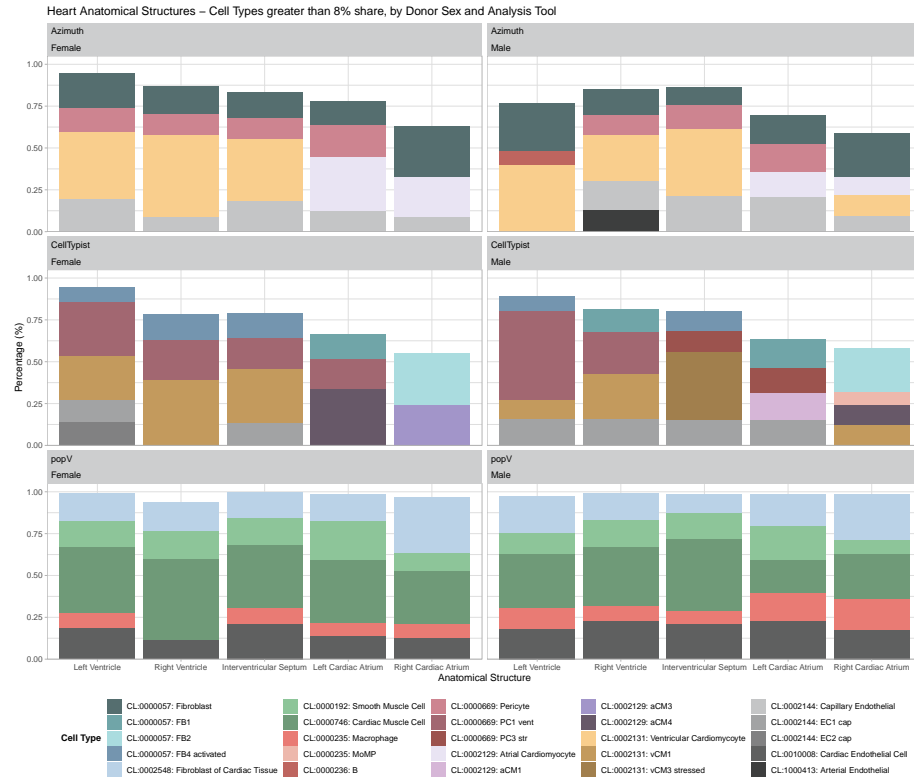
5 Visualization

Base design for 100% stacked bar graphs representing the cell types commonly identified in anatomical structures within donated organs.

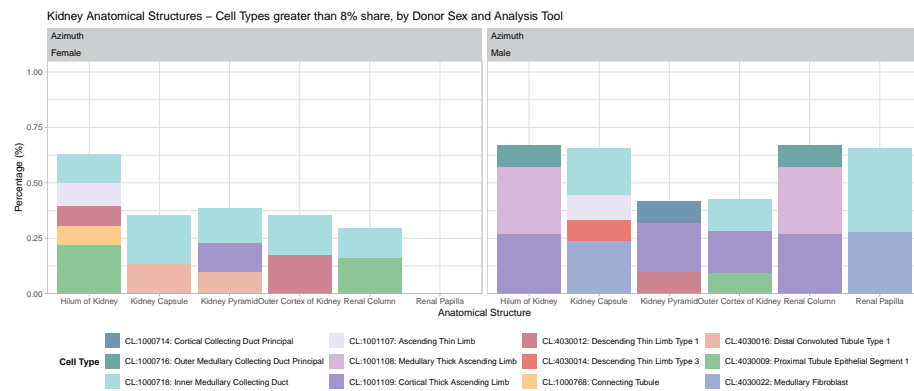
Bar graph definition:

Stacked bar represent top cell types associated with an organ anatomical structure * Data threshold: 8% minimum cell percentage values (or mean cell percentage values PER AS) * Bars - anatomical structure categories. * Bar segment-area-Cell Type percentage measures * Bar/Bar segments should total to at most 1 or 100%. * Mean cell type percentage calculation-tool, sex organ, as * Bar segment-color-cell types categories. * Facets represent combination of analytic tool and gender.

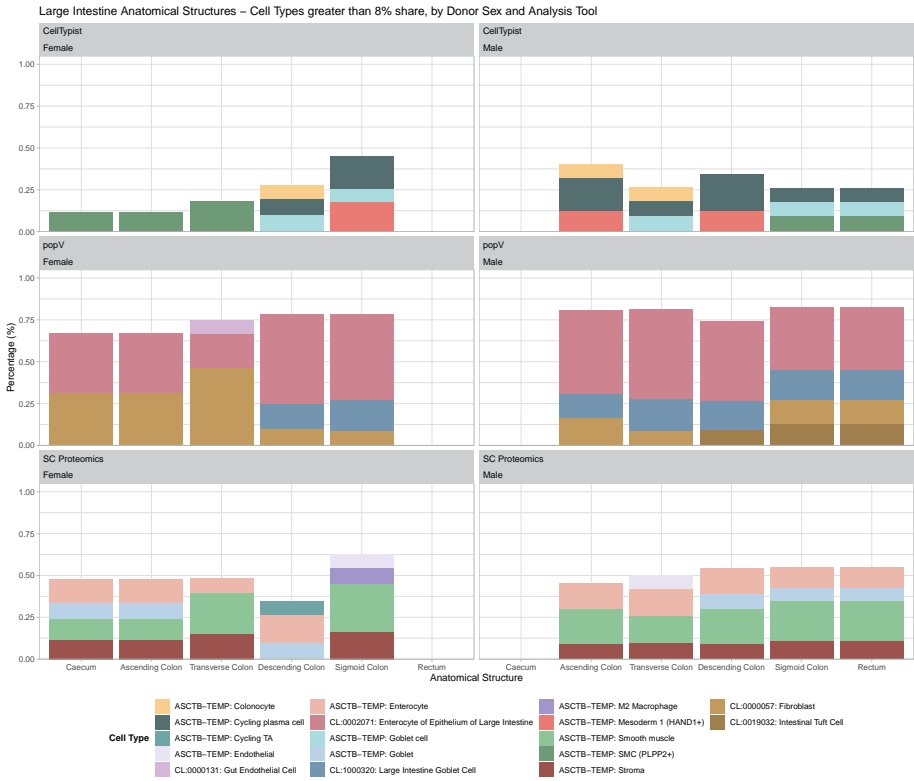
5.1 Heart - Anatomical Structure - Cell Types



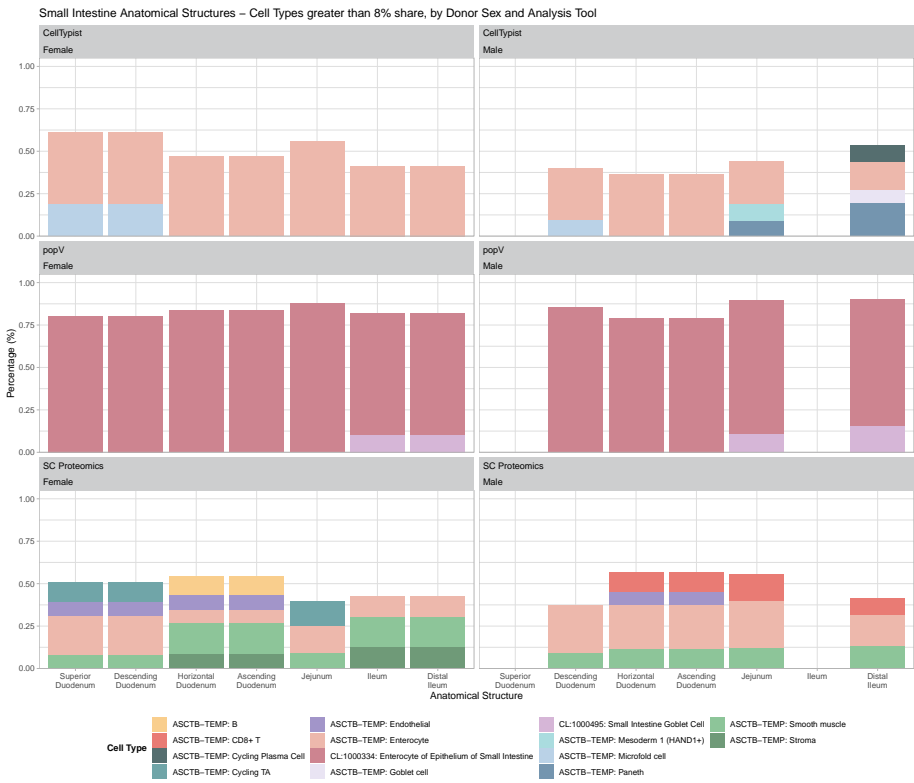
5.2 Kidney - Anatomical Structure - Cell Types



5.3 Large Intestine



5.4 Small Intestine



5.5 Lung

