

# 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

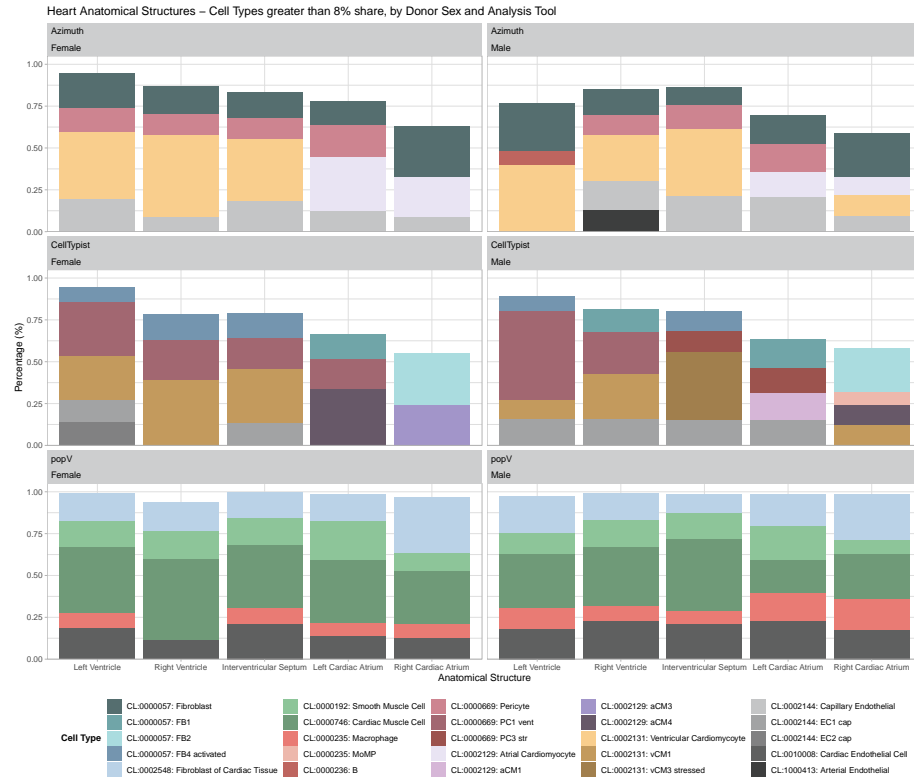
## 4 Subsetting data by Organ

## 5 Visualization

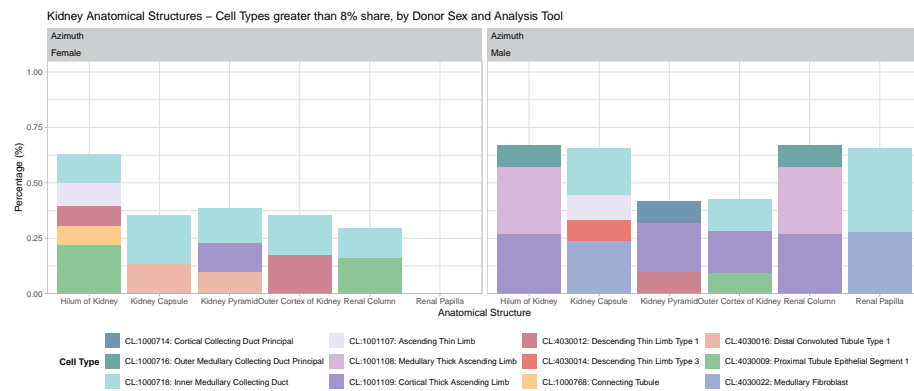
Base design for 100% stacked bar graphs representing the cell types commonly identified in anatomical structures within donated organs.

For each set of records associated with organs: Bars represent an anatomical structure, Bar segments are associated with Cell Type percentage measures values segments should total to at most 1 or 100%. mean cell type percentage calculation - organ, sex, tool, as Bar color represents cell types Facets represent combination of analytic tool and gender OR analytic method.

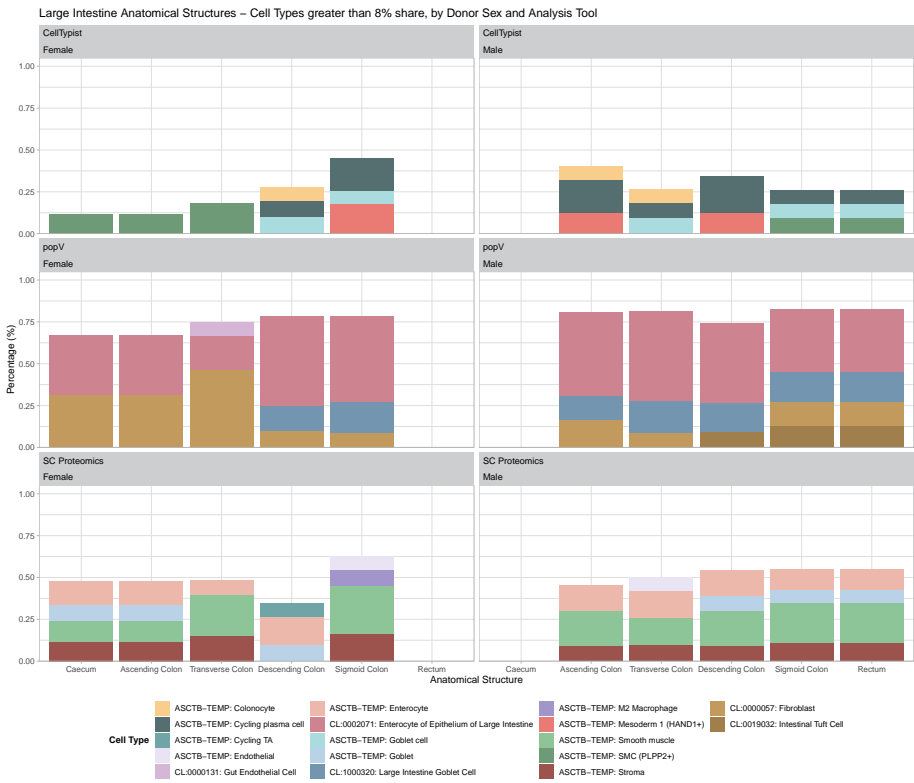
## 5.1 Heart - Anatomical Structure - Cell Types



## 5.2 Kidney - Anatomical Structure - Cell Types



### 5.3 Large Intestine



5.4 Small Intestine

