**Notes on pre\_sim pipeline**

1) Define tags:

Inputs = tags.json and Bachmann\_bundle\_fec\_settings.json, laplace solutions

Outputs = mesh with isolated AV plane, FEC layer and BB area

2) Extract peri surface:

Inputs = mesh\_AV\_FEC\_BB and tags.json

Outputs = epicardium for sim

3) Surfaces manipulation:

Input = mesh\_AV\_FEB\_BB

Outputs = All other surfaces for sim

4) Surfaces rings:

Inputs = mesh\_AV\_FEC\_BB and tags.json

Outputs = SVC and RPVs surfaces for sim

5) Surf2vtx:

Inputs = SVC and RPVs surfs

Outputs = vtx files of inputted surfs

6) Pericardium map cohort:

Inputs = mesh\_AV\_FEC\_BB, uvc\_z, BiV\_mesh

Outputs = elem\_dat\_UVC\_ek.dat

7) Atria pericardium:

Inputs = atrial UVCs

Outputs = unsure

8) Combine elem dats:

Inputs = map\_rotational\_z.dat for BiV and atria

Outputs = myocardium\_AV\_FEC\_BB\_elem\_dat\_UVC\_combined

9) Make sims folder:

Inputs = basically paths to everything produced so far

Outputs = Folder with exactly what is needed for simulation

10) Split FEC:

Inputs = tags.json, tags\_lvrv.json, mesh\_AV\_FEC\_BB

Ouputs = mesh\_AV\_FEC\_BB\_lvrv