The files are taken from folder initial\_condition\_for\_solver. These are the initial guess for fsolve in order to calculate the baseline steady state variable values.

Original names

female\_RAS0\_ALD0\_normo\_0\_0\_0\_0\_0\_IG.txt

male\_RAS1\_ALD1\_normo\_0\_0\_0\_0\_0\_IG.txt

New names

female\_ss\_data\_IG.txt

male\_ss\_data\_IG.txt

female\_ss\_data.mat

male\_ss\_data.mat

My order

rsna; alpha\_map; alpha\_rap; R\_r; beta\_rsna; Phi\_rb; Phi\_gfilt; P\_f; P\_gh; Sigma\_tgf; Phi\_filsod; Phi\_ptsodreab; eta\_ptsodreab; gamma\_filsod; gamma\_at; gamma\_rsna; Phi\_mdsod; Phi\_dtsodreab; eta\_dtsodreab; psi\_al; Phi\_dtsod; Phi\_cdsodreab; eta\_cdsodreab; lambda\_dt; lambda\_anp; Phi\_usod; Phi\_win; V\_ecf; V\_b; P\_mf; Phi\_vr; Phi\_co; P\_ra; vas; vas\_f; vas\_d; R\_a; R\_ba; R\_vr; R\_tp; P\_ma; epsilon\_aum; a\_auto; a\_chemo; a\_baro; C\_adh; N\_adh; N\_adhs; delta\_ra; Phi\_twreab; mu\_al; mu\_adh; Phi\_u; M\_sod; C\_sod; nu\_mdsod; nu\_rsna; C\_al; N\_al; N\_als; xi\_ksod; xi\_map; xi\_at; hatC\_anp; AGT; nu\_AT1; R\_sec; PRC; PRA; AngI; AngII; AT1R; AT2R; Ang17; AngIV; R\_aa; R\_ea; Sigma\_myo; Psi\_AT1RAA; Psi\_AT1REA; Psi\_AT2RA; Psi\_AT2REA

Jessica’s order

alpha\_map; alpha\_rap; rsna; beta\_rsna; R\_aa; R\_ea; R\_r; phi\_rb; P\_gh; P\_f; phi\_gfilt; sig\_tgf; phi\_filsod; gamma\_filsod; gamma\_at; gamma\_rsna; eta\_ptsodreab; phi\_ptsodreab; phi\_mdsod; psi\_al; eta\_dtsodreab; phi\_dtsodreab; phi\_dtsod; lam\_dt; lam\_anp; eta\_cdsodreab; phi\_cdsodreab; phi\_usod; phi\_win; V\_b; P\_mf; phi\_vr; phi\_co; P\_ra; vas\_f; vas\_d; R\_ba; R\_a; R\_vr; R\_tp; P\_ma; a\_auto; a\_chemo; eps\_aum; N\_adhs; C\_adh; mu\_al; mu\_adh; phi\_twreab; phi\_u; C\_sod; nu\_mdsod; nu\_rsna; xi\_ksod; xi\_map; xi\_at; N\_als; C\_al; C\_anp; V\_ecf; vas; a\_baro; N\_adh; delta\_ra; M\_sod; N\_al; R\_sec; nu\_at1; PRC; PRA; AGT; ANGI; ANGII; ANG17; ANGIV; AT1; AT2; psi\_AT1\_aa; psi\_AT1\_ea; sig\_myo; psi\_AT2\_aa; psi\_AT2\_ea

transform\_data.m loads Jesscia’s data, deletes extraneous rows, reorders data in my order, and saves resulting data with appropriate name.

solve\_steady\_state\_numerical.m calculates the steady state solution using fsolve. The intiial guess is loaded, and the steady state solution is calculated and saved.