pThyrosim in Hours

**How to Run the Code:**

All the parameters can be found and modified under the args parameter of the launch.json file. They are all labeled for their intended purposes there.

From there, you can just click run from within VSCode after being within the Thyrosim.java tab.

If the code is not working, follow these instructions:

* Ensure you opened ANTIBODY2 in VSCode.
* Press "Ctrl + Shift + P", choose "java : Clean java Language Server workspace"
* Then you should be able to press run under the Thyrosim.java file.

**Code Explanation:**

*Thyrosim.java:*

When starting the program, run here.

Thryosim(...):

Initializes parameters and plotters

computeDerivatives(...):

Recieves double t, double[] q, double[] qDot

Calculates all variables used for pThyrosim

personalize(...) is not implimented in here yet

personalize(...):

Receives boolean sex, double height, double BW

Recalculates a new Vp, Vtsh, and k05 for personalized Thyrosim models

Prints the new values

plotAll():

plots t3, t4, and TSH graphs

main(...):

Receives every necessary variable for the program (list can be found in launch.json under args:)

Initializes, calculates, and plots the Thryosim models

*Launch.json:*

Change the args to modify the inputs.