

FunWork #1

Due on February 03

- You may work on this FunWork by yourself or with classmates. No more than three persons per group.
- One write-up per group; it must be typed.

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1. Select a hypothalamic-pituitary-adrenal (HPA) axis and a hypothalamic-pituitary-thyroid (HPT) axis models.
 2. Compute equilibrium points of interest.
 3. Perform simulations using MATLAB and SIMULINK.
 4. Discuss modeling interaction between HPA and HPT axes.
 5. Discuss presence of time delays in the endocrine systems.
 6. Submit only html or pdf file of your MATLAB m-file prepared using the cell mode. Use the publish button in the tool-bar to obtain an html file, or go to the workspace and type

```
publish('your m-file name without extension','pdf')
```

to obtain a pdf file. Submit either html or pdf file.