Pharmacokinetics

Find Your Project 2 Teammate, seat yourselves comfortably, and please read through the rest of this document.

Today's Agenda

Today we'll explore the Bergman Minimal Model for Glucose Kinetics, the Chapter 17 material on Pharmacokinetics, and work on ideation and research in our Project 2 teams.

The Minimal Model

Answer these questions related to the Bergman paper:

1. What were some of the problems they had to solve to make the model work?
2. Why did they add a remote compartment to the model? What did the remote compartment turn out to be in reality?
3. In what sense is the model "minimal", and why is that a good thing?

Chapter 17

Write notes here related to Chapter 17.

Project 2

At some point during today's class time, we want you to make some conscious choices about how you will operate as a team. First, on your own, spend a few minutes completing the Team Working Styles Spectra.[1] Each line shows a spectrum of how you might prefer to work. Place yourself on each spectrum. Be honest.

[1] Original teaming styles spectra credit to Ben Linder.

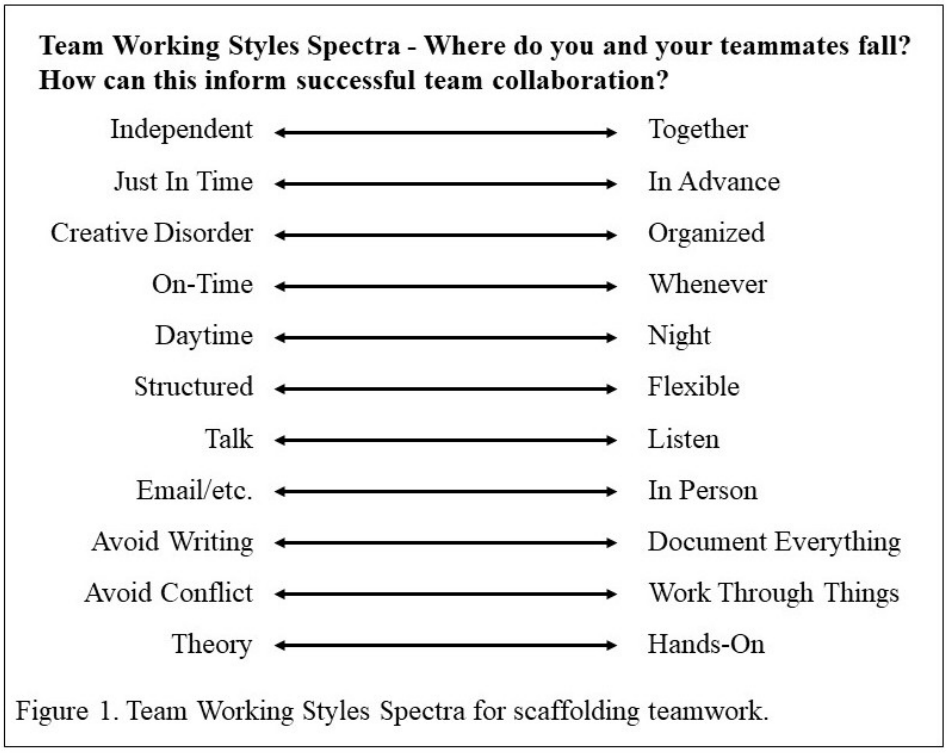

Figure 1. Team Working Styles Spectra for scaffolding teamwork.

Once you have completed the spectra individually, spend 10 minutes discussing these as a team and reaching agreements about how you will work together. Where you have different working styles, find compromises that will allow everyone to participate in the project. Even where you agree, make decisions about how you will manage the project together.

Use the space below to document your teaming agreement. Be sure to include a plan for team communication and expectations for time spent outside of class.

What domain is your team planning to work in: epidemiology, thermodynamics, or circuits?

What research questions / problem spaces are your team considering right now?

What is your research plan for tonight? Will you be looking for more ideas, research papers, equations, relevant data, . . . ? What sources will you start with in looking for this information?

What additional project research do you anticipate doing after tonight, once your project proposal is complete and you begin building your model? How will you use that information in your project (e.g., as model parameters, for validation)?

Reflection Question

What kind of work does the glucose minimal model do?

Next Steps

Before class on Tuesday, please do the following things:

- ☐ Write your name here: _____
- ☐ Write your name(s) of your studio partner(s) here: _____
- ☐ By tonight: Scan this worksheet and submit it on Canvas.
- ☐ Also tonight: Read Chapter 18 and complete the reading quiz.
  Read and run the Chapter 18 notebook.
- ☐ Meet in the studios on Tuesday.