



Special Provision for Kinetic Systems Biology

1. Our purpose

- a. We are the Special Provision for Kinetic Systems Biology (abbreviated to SPKSB), and we are looking to bring a dynamic and modern view to the field of biological kinetics through various methods.
- b. The one true overarching goal of the SPKSB is to firstly advance the knowledge of biology in a primarily Dynamic and Kinetic view, rather than a static view. Other than pure research, this provision aims to actually use the knowledge we gain in various applications, but theory and mathematics comes first.

2. Team members and roles

- a. Dhruva Gadiparthi - Director, nucleic acid and biophysics expert
- b. Srikar Kampalli - Commander, neuroscience expert

3. Values and givens

- a. We believe in bringing new approaches or utilizing methods and systems from other fields into biological kinetics. Whether it is from neuroscience, physics, or a whole other unrelated field, as long as it can be used to further the knowledge of biology, it is permitted.

4. Goals

- a. The goal is twice per year, we are able to write a paper or some preprint and go to 1 conference.
- b. To start, we are researching a key ratio in evolutionary biology known as dN/dS , which determines how a protein changes over time based on changes to the gene that expresses it.



Special Provision for Kinetic Systems Biology

5. Decision-making

- a. Linear will always be useful for getting decisions done. In addition, team calls will be utilized to solve issues live.

6. Communication

- a. Communication will be primarily done over Linear, where projects, issues, and ideas can all be opened within one space.
- b. Integration with Slack is currently being considered by the team members.

7. Conflict resolution

- a. In case of a conflict happening, it is important for the entire team to get involved, as one small issue can always spiral into something that can affect the entire organization and halt our work.
- b. A special issue in Linear will be created for specifically handling the conflict, and both sides will have a fair shot at explaining what their points/approaches will be.

8. Resources and support

- a. You can contact either Srikar or Dhruva at their phone numbers or in Linear.
 - i. Srikar - 904-420-7898
 - ii. Dhruva- 904-793-5647