Holland Group Meetings, Winter/Spring 2024
Wed. 6-7:30 pm, CRB 123

Wed. evening	Presenter	Topic	Other events
Jan 3	Welcome Back	Escape Room!	
Jan 10	Ryan W.	Research Intro	
Jan 17	**Ethics**	**Discussion**	
Jan 24	Sam/Carmelita	Literature	
Jan 31 (5:30 pm, SCL 111)	Alec	Research	Thompson seminar Monday
Feb 7	Simon	Research	
Feb 14	no meeting		
Feb 21	Juan	Research	Roberts seminar Monday
Feb 28 (7 pm)	Teddy	Research	
Mar 6	no meeting	Literature	Cook seminar Monday
Mar 13	Nere/Ryan W.	Literature	
Mar 20	Ryan D.	Research	
Mar 27 (7 pm)	Sam	Research	
Apr 3 (4 pm)	Juan/Jacob	Literature	
Apr 10	Nere	Research	Weix seminar Wednesday
Apr 17	Undergrads	Research	Smith seminar Monday
Apr 24	Ryan W.	Research	
May 1	Linda	Research	
May 8	Alec/Simon	Literature	SCL symposium Friday
May 15 (5 pm)	BOPS	Special	
May 22	Alec	Research	
May 29	no meeting		

Group Meeting formats on second page.

Research group meeting: The introduction should have the logical basis for the project, and some literature review to get everyone else up to speed. However, don't present results from previous group meetings, except as needed to put new results in context. Don't show a lot of raw data, like a subgroup meeting. Rather, focus a substantial fraction (1/3) of the meeting on your proposed experiments and vision of what paper(s) are envisioned to look like, and potential pitfalls. This trains us to present our results in context with professional delivery and slide construction, to plan the most efficient route to a air-tight paper, and to get feedback on alternative interpretations and criticisms of logic.

For a group member's first group meeting, it is expected that the amount of results will not be a lot! This is a good time in the project to spend more time outlining your plans, proposed experiments and anticipated results, potential pitfalls, and how you could address them. There are many examples in the group Box folder.

Literature group meeting: Done by a team of two group members, and topic ideally outside the comfort zone for both, or one where both can learn from each other. They choose a paper or a few linked papers, which are distributed 1 week ahead of the meeting. Everyone is expected to think about the paper(s) in advance. During presentation, only 1-2 slides max. A couple of set questions each time "What is the significance?" "Did they introduce all the key concepts and how did they do it?" "What studies should be done next?" Another 3-5 discussion questions are suggested by the presenter; these should be open-ended. ("Open-ended" doesn't mean a vague question - this means a question that requires a thoughtful answer that is likely to lead to more discussion.) This trains us to read the literature carefully, to format our own papers, and leads to discussion of fundamentals.

Other types of group meeting: MIPS (mini proposal of the semester) and BOPS (big ol' problem solving). For BOPS, topics announced 1 month ahead of time.

MIPS: Diverse groups generate a potential research project to solve a problem, based on applying a new result in one area to a different area. BOPS: Challenging problems in current chemistry are proposed, and each person comes up with their own potential solution. With both, the group meeting consists of discussions of the different solutions, and others critique the logic, pitfalls, and strategy. This trains us on effective logic, identifying pitfalls, exercising creativity, and applying fundamentals.

In all group meetings, it is important to properly cite all sources. Journals should be cited in ACS format: Author, F. A. *Journal* **Year**, *Volume*, Page. (no issue number!!)