

Holland Group Meetings, Winter/Spring 2023
Wed. 6-7:30 pm, CRB 123

<u>Wed. evening</u>	<u>Presenter</u>	<u>Topic</u>	<u>Other events</u>
Jan 11	Hanin	Research	
Jan 18	Ethics	Discussion	
Jan 25	Conner	Research	
Feb 1	Juan/Elena	Literature	
Feb 8	Chris	Research	
Feb 15	no meeting		Bart seminar Monday
Feb 22	Alex	Research	Chirik/Sanford/Stahl in Crabtree symposium Thur.
Mar 1	Simon	Research Intro	Garcia-Bosch seminar Monday
Mar 8	Majed/Carmelita	Literature	
Mar 15	Linda	Research	
Mar 22	Sam	Research Intro	
Mar 29	Simon/Maria	Literature	
Apr 5	Reagan	Research	Brozek seminar Monday; lunch tutorials start on Friday
Apr 12	Majed	Research	
Apr 19	Undergrads	Research	
Apr 26	Ryan	Research	Reisner seminar Monday
May 3	Teddy	Research	Mulfort seminar Monday
May 10	Sam/Linda	Literature	
May 17	Alec	Research	
May 24	Juan	Research	
May 31	BOPS	Special	

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.

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.

New types of group meeting: MIPS (mini proposal of the semester) and BOPS (big ol' problem solving). 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.

Paper plan group meeting: 1 week ahead of time, a hypothetical result is given, and each group member tries to devise a vision of what the paper would look like, and what experiments are needed in order to complete a logical and compelling paper. In group meeting, we discuss our various ideas, and come to a consensus solution. This trains us to efficiently plan out pathways from initial results to publishable manuscripts.