

# CH444 - Advanced Topics in Biochemistry

## This is the home of the CH444 - Advanced Methods in Biochemistry

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[CH444 Syllabus](#)

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### Weekly class assignments

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### Approximate weekly schedule, Spring 2015

Week of	Lecture Topic	Reading / Textbook Chapters	Assignments, etc.
2/9	Introduction / Model organisms / cell culture / cell fractionation	Chapter 1-4	JBC review, due in class
2/16	Molecular Biology / cloning / genomics	Chapters 5-6	[Literature search]^LitAssignment15.pdf], due in class JBC review, due in class [Writing assignment 1a]^WriteAssign1a_15.pdf], due by email on 2/20
2/23	Electrophoresis / chromatography / protein purification	Chapters 8, 10, 11	JBC review, due in class [Writing assignment 1b]^WriteAssign1b_15.pdf], due by email on 2/27
3/2	In-class writing workshop Enzyme assay development / enzyme mechanisms	Chapter 15	[Peer review]^PeerReview_15.pdf], due in class
3/9	Immunological assays / radioisotope techniques	Chapters 7, 14	JBC review, due in class [Writing assignment 1c]^WriteAssign1c_15.pdf], due by email on 3/11
3/16	<b>Mid-term oral presentations</b>		

3/23	<b>Spring Break</b>		
3/30	Mass spectroscopy / proteomics	Chapters 9, 12, & 13	JBC review, due in class [Final project executive summary]^FinalProject_ExecSum_14.docx], due by email on 4/3
4/6	<b>Mid-term examination</b>		1-on1 meetings with Kevin
4/13	Modern approaches to experimental biochemistry I	TBD	Literature review, due in class Final project introduction, due by email on
4/20	Modern approaches to experimental biochemistry II	TBD	Literature review, due in class Final project draft, due by email on
4/27	Modern approaches to experimental biochemistry III	TBD	Final project peer review, due in class
5/4	<b>Final oral presentations</b>		
			Final project, due by email on

## Mid-term oral presentation schedule

Oral presentations will be presented in the order given below (unless folks mutually agree to switch). Each student will choose a paper from the journal linked next to her/his name and email it to Kevin by Monday 3/9. The requirements are that the paper must be: 1) biochemical in scope, 2) published in 2015, 3) a full paper, not a communication or review, and 4) something about which you are really excited. Remember, all students will be required to evaluate the others' presentations. Detailed guidelines and evaluation rubrics [can be viewed here]^MidtermOral\_Guidelines\_15.pdf].

Order	Presenter	Source Journal	Presented Paper
1	Ryan	<a href="#">Chemistry and Biology</a>	Segal, et al.
2	Darcy	<a href="#">Biochemistry</a>	Ryan, et al.
3	Sam	<a href="#">Molecular Cancer</a>	Tuna, et al.
4	Colin	<a href="#">Nucleic Acids Research</a>	Beloglazova, et al.
5	Vania	<a href="#">Molecular and Cellular Biology</a>	Sohni, et al.
6	Sarah	<a href="#">ACS Chemical Biology</a>	Magpusao, et al.
7	Megan	<a href="#">Journal of Molecular Biology</a>	He, et al.

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