

CH444 - Advanced Topics in Biochemistry

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

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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 | Mid-term oral presentations | | |

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|------|--|----------------------|--|
| 3/23 | Spring Break | | |
| 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 | Mid-term examination | | 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 | Final oral presentations | | |
| | | | 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 | Chemistry and Biology | Segal, et al. |
| 2 | Darcy | Biochemistry | Ryan, et al. |
| 3 | Sam | Molecular Cancer | Tuna, et al. |
| 4 | Colin | Nucleic Acids Research | Beloglazova, et al. |
| 5 | Vania | Molecular and Cellular Biology | Sohni, et al. |
| 6 | Sarah | ACS Chemical Biology | Magpusao, et al. |
| 7 | Megan | Journal of Molecular Biology | He, et al. |

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