

## Genetics/Biochem 703

### Selection of the paper for your research proposal

Research proposals will be based on one of the papers listed below. The course web site (<http://www.biochem.wisc.edu/biochem703/>) contains copies of the papers as PDF files.

Selection process: Place a number "1" on the line next to the paper on whose topic you most want to write your proposal. Then go to the other group and place a "2" next to your second choice topic. (Your first and second choices must be from different groups.) Then, place a "3" next to your third choice, which can be from either group. Deliver your preferences by 3PM Friday afternoon (1/30/09) either in person or via email to Phil Anderson (andersn@wisc.edu). If you do it via email, give the first author of your 1st, 2nd, and 3rd choices.

We will make every effort to give you your first or second choice, but proposal topics must be distributed equally among the two groups. Students will be matched with topics, and the results will be distributed in class on 1/2/09.

**YOUR NAME:** \_\_\_\_\_

#### Group A

\_\_\_\_\_ Moldon, et al. 2008. Promoter-driven splicing regulation of fission yeast. *Nature* **455**: 997. See also *News and Views Nature* **455**: 885-86.

\_\_\_\_\_ Core, L.J., Waterfall, J.J. and Lis, J.T. 2008. Nascent RNA sequencing reveals widespread pausing and divergent initiation at human promoters. *Science* **322**: 1845-48. See also *Perspectives*, "Gene Expression – Where to Start?", *Science* **322**: 1804-05.

\_\_\_\_\_ Brennecke et al. 2008 An epigenetic role for maternally inherited piRNAs in transposon silencing. *Science* **322**: 1387-92.

#### Group B

\_\_\_\_\_ Li, et al. 2008. RNA toxicity is a component of ataxin-3 degeneration in *Drosophila*. *Nature* **453**: 1107-1111.

\_\_\_\_\_ Kedde, et al. 2007. RNA-binding protein Dnd1 inhibits microRNA access to target mRNA. *Cell* **131**: 1273-1286.

\_\_\_\_\_ Li, et al. 2008. A neoplastic gene fusion mimics trans-splicing of RNAs in normal human cells. *Science* **321**: 1357-1361.