

### Proposed BCMB 4030/6030 Schedule, Fall 2006

| <b>Week</b>               | <b>Experiment</b>                                  | <b>Points</b> |
|---------------------------|--|---------------|
| August 22 and 23          | Preparation of phosphate buffer                    | 10            |
| August 29 and 30          | Isolation of alkaline phosphatase a                | 10            |
| September 5 and 6         | Isolation of alkaline phosphatase b                | 10            |
| September 12 and 13       | Isolation of alkaline phosphatase c/d              | 15            |
| September 19 and 20       | Alkaline phosphatase kinetics                      | 10            |
| September 26 and 27       | Native gel electrophoresis                         | 5             |
| October 3 and 4           | SDS gel electrophoresis; media preparation         | 10            |
| October 10 and 11         | Gel filtration of alkaline phosphatase             | 10            |
| October 17 and 18         | Transformation-cyan fluorescent protein plasmid    | 5             |
| October 24 and 25         | Plasmid isolation and quantitation; PCR setup      | 10            |
| October 31 and November 1 | Digestion and agarose gel electrophoresis          | 5             |
| November 7 and 8          | Second transformation-kanamycin resistance plasmid | 5             |
| November 14 and 15        | Second plasmid preparation and quantitation        | 10            |
| November 28 and 29        | Digestion, cleanup and ligation                    | 5             |
| December 5 and 6          | Third transformation                               | 5             |

Lectures Monday 12:20-1:10 p.m. Laboratory Tuesday or Wednesday. Test October 9 (20 points).

Instructor: J. Brewer, A316 Life Sciences (2-1773). The "points" are for the writeups of the laboratory work, and consist of the raw data, the treated or processed data, any tables or figures called for, and any conclusions called for. The test consists of problems similar to calculations employed in treating experimental data like that obtained in the experiments.