

BMI 826-001: Statistical methods for QTL mapping (Fall, 2012)

Homework #1: Genetic map construction

Due 2 Oct

Grab the comma-delimited data file at

`http://www.biostat.wisc.edu/~kbroman/teaching/qtltopics/hw1.csv`

This is simulated data from a backcross with 250 individuals, with 36 markers on 3 chromosomes (but I don't tell you which markers are on which chromosomes).

Construct a genetic map from these data, identifying and omitting problematic markers and individuals, forming linkage groups, ordering markers within each group, and estimating inter-marker distances.

Write a brief report describing what you did and what you found. Include figures and tables but no code—place any computer code in an appendix, or (even better) just email it to me as a separate file.