

**CS425**  
**ASSIGNMENT 6 (DUE MAY 4, 2017)**  
**MULTIPLE SEQUENCE ALIGNMENT**

Computer Science Department  
Colorado State University

April 27, 2017

**Multiple Sequence Alignment Hands-on Experience [100 pts].**

We would like to align and compare HgB genes in human, rat, and mouse. Download the gene sequences from the assignment webpage and upload them to MUSCLE web application at <http://www.ebi.ac.uk/Tools/msa/muscle/>. Select ClustalW output format, which is the default. Report the output alignment. Also, find Percent Identity Matrix from the results summary tab and report the three pairwise identity percents.

Upload a report including the results of each task onto Canvas.