

MCDB 4550/5550

Molecular and Cellular Biophysics

Perkins

Assignment #7

Due Thursday, March 14<sup>th</sup> at the end of class

1. Bring three (3) well thought out questions about the literature paper to class and hand them in.

Additional questions on the paper for you to answer.

1.1 How did the authors determine the rupture force of the tension gauge tethers?

1.2 Why did the authors look at several different cell lines? What did they conclude?

1.3 How did the authors control cytoskeleton tension and why might that matter?

1.4 Does the TGT provide a continuous measurement of tension? Explain