

## **Proteins: Making Bio-Inspired Proteins**

### Table of Contents

#### 1. Tensegrity Modeling

- Great first day activity!
- Students build tensegrity models and relate it to the tensegrity of cytoskeletal proteins

#### 2. Cellular Landscape

- Panorama of the cell from 3D Molecular Designs
- Students identify types of proteins, cell parts/organelles, and trace gene expression

#### 3. Protein Bracelets

- Students model transcription and translation
- Students take home bracelets that represent the beginning of a polypeptide of a chosen protein

#### 4. Genes and ConSEQUENCES

- Students conduct BLAST Lab
- Kit from Carolina Biological Supply Company

#### 5. Ampli Kit from MIT

- Student guide for Ampli kit (Kit will hopefully become available soon for the West Coast)