**Modeling ATP Life Extension in Synthetic Cells by an ATP Rheostat Pathway and ATP Synthase Mechanism**

Ankita Roychoudhury (SURF student), Richard M. Murray (mentor)

24 July 2020

*Keywords: synthetic biology, TX/TL system, ATP regeneration, rheostat, ATP synthase*

**Modelling Progress/Observations**

Over the last month, progress has focused on