Daniel McDonough

4/24/18

Cell Bio

PLC #7

Article: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5840354/>

Neelam, Soda. Brijesh, K. Gupta. Khalid, Anwar. Ashutosh, Sharan. Govindjee, Sneh L. Singla-Pareek, Ashwani. Pareek. Rice intermediate filament, OsIF, stabilizes photosynthetic machinery and yield under salinity and heat stress. Sci Rep. March 6; 8 (4072), 1 – 13 (2018).

This article is classified as a primary research article based on the unique abstract and intro formatted such that the abstract is for a quick summary of the results methods and conclusions. The intro provides background information needed to understand the intricacies of the thought process and data of the article. The data/results is shown with no interpretation on their methods as it is in its own separate section as the “Discussion”. This article also releases all funding information to disclose any potential outside influence.

This week in class we are continuing to discuss filaments and their purpose in the cell, it is fitting that the article examines Intermediate filaments and their purpose in organization of proteins for photosynthesis. As Intermediate filaments organize and maintain chloroplast ultrastructure and favorable K+/Na+ ratio.