November 4, 2018

Dear Dr. Ronald Myers,

Please find enclosed our revised manuscript entitled, “Expression, solubilization, and purification of eukaryotic borate transporters.” Please note that, per a reviewer comment, we have changed the title from our original submission by subtracting one word.

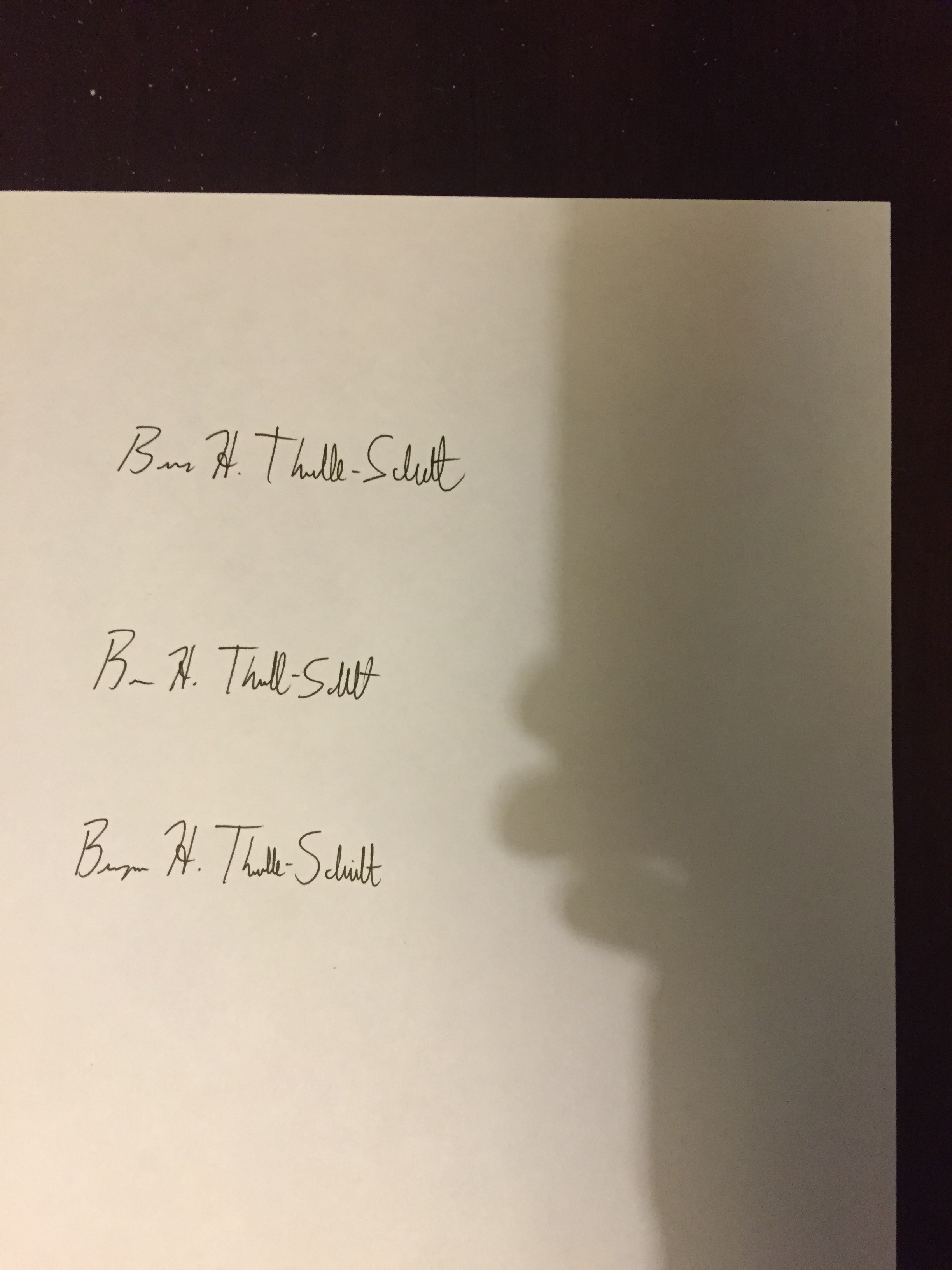
We were very glad to see that the comments were overwhelmingly positive and the concerns minor. We have responded to every comment line-by-line in a document we are enclosing with our revised manuscript. All of the concerns fell into the “minor” category except for one comment from Reviewer #5, who suggested we perform electron microscopy on our samples. This is an unusual comment for several reasons. First, we note that the reason given for doing this – monitoring protein homogeneity – is already evaluated using size exclusion chromatography, which is the standard used in the field of membrane protein expression studies (recent examples include JoVE papers from Robert Ford and Eric Gouaux). We have modified the text to emphasize this point. Also, there is no electron microscope at Davidson College. Part of the advantage of our protocol is that it uses relatively ubiquitous equipment that can be found at a diverse array of institutions with varying degrees of resources, including all-undergraduate institutions such as Davidson College.

In our revised manuscript we have highlighted text totaling less than 2.75 pages that we think identifies the essential steps of the protocol for the video. In sharing our expertise on membrane protein purification with our detailed protocols, we continue to think this work should appeal to a significant cross-section of researchers who rely on JoVE, especially those interested in membrane proteins, transporters, and protein expression methodologies.

Thank you for your consideration, and please do not hesitate to contact us with any questions.

Sincerely,

Bryan H. Thurtle-Schmidt



Assistant Professor of Biology

Davidson College