**Henry Hurt Research Status Report: 03/07/2022**

**Lab:**

* All fungal samples that will be used in this research have been obtained and cultured.
* DNA extraction and PCR should take place this week or next.

**Journals:**

Several scientific journals that specialize in mycological and agricultural research have been identified as potential publishing destinations. In particular, *Mycosphere, Bioresource Technology,* and *Acta Mycologica* seem to be good publications to consider submitting research to.

* *Mycosphere*
* *Bioresource Technology*
* *Acta Mycologica*
* *LTW – Food Science and Technology*
* *Applied Microbiology & Biotechnology*
* *Compost Science & Utilization*

**Literature Review:**

Specific gaps in the literature that can be addressed in this research have been identified. Primally, cultivation techniques and the substrates for optimal production have yet to be identified for many species. Review of additional papers is an ongoing process.

**Experimental Design:**

The experimental design and data analysis has been finalized. The number of experimental units, treatments, and data collected have been determined. Procedures for the preparation of substrates and growing conditions have been identified in the literature. Data collection procedures for sporocarp production and biological efficiency have been determined, although more work is needed to develop a procedure for analyzing nutrient content.

I will make contact with Dan Dreesmann this week about reserving greenhouse space for growing.

**Materials**:

* Still need local sources for sawdust and straw. Sources of coffee and spent brewing grain have been identified.
* Placed order request for lab and growing materials.