**Weekly Research Schedule:**

**M/W/F:**

Work or research between classes

10 – 12:30

Write

12:30 – 1:00

Communications

5:00 – 8:00

Write ongoing papers / review work

Read literature

Lab work

**Tu/Th:**

9:30 – 12:00

Write

1:00 – 3:00

Communications

3:00 – 6:00

Lab work

**To do list per week:**

* 04/14

ERI Renewal  
Weekly Plan with List of Deliverables

Calculate run times to first harvest for species.

Obtain sources of straw and sawdust.

New isolates from Fungi Perfecti (if possible)

Order:

1. Control substrates / grow kits
2. New isolates from Fungi Perfecti (if in stock)
3. More grow bags
4. Gypsum

DNA extraction (if samples grow to fill plates)

* 04/21

Read additional Papers

Fill out form for growth chambers.

Order control substrate, gypsum.

Contact Dairy

Find place to ferment/compost sawdust.

Conduct PCR (if primers arrive)

Finish Methods & Materials section.

Visit Greenhouses to plan growing procedures.

Gather tools for processing substrates.

**Notes:**

Growth rooms only have 15 sq. ft.

Fermented Sawdust

Orders – Most from Outgrow.

Make sure that nothing will go bad.

Contact WSU dairy for sawdust. – Find amounts.

Knott Diary Center

Get SAWDUST, not SHAVINGS.

Control substrates will be easy to order.

* 04/28

Place order for materials

Decide whether to use sawdust

Rye vs Sorghum?

Pick up sawdust

Investigate Greenhouse

**Notes:**

Obtained sawdust from Bennett Lumber Co. on the 29th.

When will the primers arrive? Should I start propagation without them?

Rye vs Sorghum? Order soon.

* 05/14

Have growing rooms

* 05/11

**Deliverables:**

* Have growing space reserved
* Renew grant funding.
* Methods document containing exact protocols for each species.
* Find sources for sawdust and straw.
* Schedule of running times for fungi and starting dates for different steps.
* PCR analysis

**What do you plan to accomplish this coming year?**

* April 2022: Start cultivation trials.
* May/June 2022: Continue cultivation. Collect data regarding mushroom yields and quality.
* Multiple flushes of mushrooms will be collected during the summer and early fall.
* Early Fall 2022: Analyze the total mushroom yield and growth as a function of species x substrate combination.
* Fall 2022: Compile an economic analysis of mushroom yields. The costs, labor inputs, and market prices will be compared to the other mushroom species/strains that are already in wide cultivation.
* Fall 2022/Spring 2023: If the economic analysis indicates that cultivation the selected species/strains is economically feasible, a workshop presenting our findings will be hosted.

**March:**

1. Obtain substrates
   1. Straw
      1. Four Star Supply - Pullman
   2. Spent brewing grain
      1. Paradise Creek Brewery, Pullman
      2. Moscow Brewing Company, Moscow
      3. Terrain Brewery, Pullman
      4. Another Round Brewing Company, Pullman
   3. Sawdust (use softwoods/pine)
      1. Guy Bennet Lumber Co. Clarkson, WA.
      2. Sequoia Mills. Springdale, WA.
      3. Dayton Lumber Company – Wallawalla
      4. Northwest Hardwoods – Tacaoma
      5. Cascade Lumber – Chehalis
      6. North Fork Sawmill – Lewistion, ID
   4. Coffee
      1. Various coffee shops
   5. Gypsum
2. Order other materials
   1. Control substrate + fungus
   2. Control substrate – fungus, ‘preferred substreate’
   3. Rye grain for spawning
   4. More growing bags
3. Reserve growing room space
   1. Dan Dreesmann
4. Finish Methods
5. Start colony expansion on grain (?)

**April:**

1. Colony grain expansion
2. Set up growing rooms (when available)
3. Start cultivation

**May:**

1. Continue Cultivation.
2. Review publication procedures.

**June:**

**Summer:**

Continue Cultivation. Mushrooms will flush periodically. Collect data from each.

Ongoing data analysis and writing between flushes.