**README - Litter breakdown data carpentry**

There are two R markdown files for litter breakdown data carpentry in this folder - one for year 1 and one for year 2:

Year 1 data carpentry Rmd file (“Serial Incubations Litter Breakdown - Year 1 - Cleaning and Calculations\_UPD4Mar23”)

* Requires:
  + “handling\_loss\_SI\_03Dec2020.csv”
  + “coarse\_SI\_YR1\_4Mar23.csv”
  + “fine\_SI\_YR1\_4Mar 23.csv”
  + These are the **raw** litter breakdown data.

Year 2 data carpentry (“Serial Incubations Litter Breakdown - Year 2 - Cleaning and Calculations\_UPD3Mar23”)

* Requires:
  + “handling\_loss\_SI\_03Dec2020.csv”
  + “coarse\_SI\_YR2\_4Mar23.csv”
  + “fine\_SI\_YR2\_4Mar 23.csv”
  + These are the **raw** litter breakdown data
  + Also, need the file: “FB\_SI\_YR2\_Cummins\_sample\_weights\_only\_11Dec2020.csv”.
    - This file allows us to add the fungal biomass sample weights (which had previously been sent to Vlad Gulis for fungal biomass analysis) back in to the fine-mesh litter breakdown calculations.

In these files, we perform the necessary calculations to get bag-level k (breakdown rate) values for both coarse- and fine-mesh breakdown, as well as detritivore (“shredder”) contributions according to both coarse-fine and Lecerf et al. 2017 methods.

**OUTPUT from these Rmd’s:**

* litter\_breakdown\_coarse\_fine\_yr1\_all.4Mar23.csv
* litter\_breakdown\_coarse\_fine\_yr2\_all.4Mar23.csv
* These .csv files are then used in data analysis, and thus, these files are also in the “07\_Litter\_Breakdown\_Analyses” folder.