**Table 1.** Data set extracted from published literature.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| #experiments (AKA entries) | #unique papers | Range of years papers were published  (currently) 1992-2020 | #unique laboratories | #unique countries |

**Figure 1.** The lifespan of N2 worms varies immensely in published literature.

1. All lifespans curve combined
2. Combined all lifespans curve grown at 20C on NGM (colors, not error bars)
3. Combined all lifespans curve grown at 25C on NGM (colors, not error bars)
4. Combined lifespans curved grown at 15C on NGM (colors, not error bars)
5. Average of average reported lifespans at 20C, 25C, and 15C on NGM (box plot or violin plot)
   1. Bar graph with SD (and individual points, but that may make it cluttered?)
      1. average lifespan on Y axis, temperature on X

**Figure/table 6 (move up ahead in paper, potential figure 2/table 2).** Show missing data, and potential other factors not reported in the literature. Could also include other factors we did not look at (synchronization methods like bleaching and TEL), time of year experiments were performed, amount of food, animals/plate, etc.). Leads into discussion of what is potentially missing, where to go from here, etc.

**Figure 2.** Analysis of the effect of 5-Fluoro-2’-deoxyuridine on N2 lifespan.

1. Lifespan curve of w/FUDR (+SD) vs w/o FUDR
2. Average of average reported (and/or median?) lifespans w/FUDR and w/o FUDR
3. Spread graphs w/ and w/o FUDR on days 15. show bin size 20% of 15, 20, 25C
4. Spread graphs w/ and w/o FUDR on days 20. show bin size 20% of 15, 20, 25C
5. Spread Graphs w/ and w/o FUDR on day 25. show bin size 20%? of 15, 20, 25C
   1. ~~Can be broken into individual days or temperatures, 2 bars each graph~~
   2. In supplement, add as many different bin sizes as we want
6. Graph of FUDR concentration frequency (could be supplement); can also make this a separate figure (Analysis of FUDR Concentration on N2 Lifespan);
7. Lifespan curve of 2-4 different concentrations and compare
8. Average of reported average reported lifespan (and/or median?) of 2-4 concentrations

**Figure 3.** The effect of worm transfers during experiment on N2 lifespan. Make with FUDR and without FUDR for supplement. Graphs below, do not consider FUDR

1. Lifespan using FUDR as means of population control (w/o manipulation; same as Fig2A)
2. Lifespan curve moving every day during reproductive period (3 temperatures or just 20C)
3. Lifespan every 2-3 days (3 temperatures or just 20C)
4. Can continue on to increased manipulation (still need to look at data set)
   1. Do you want
5. also do average of averages (and/or median?)(3 temperatures or 20C)

**Figure 4.** Geographic region as a potential contributor of N2 Lifespan variation. Start with 20C, just look at geographic region. Then try with/without FUDR and manipulations

1. Pie chart of #unique countries (with percentages)
2. % alive on day 15 for all countries spread graph of 15, 20, 25C
3. % alive on day 20 for all countries spread graph of 15, 20, 25C
4. % alive on day 25 for all countries spread graph of 15, 20, 25C
5. Average of average (and/or median?) lifespans for top 3-5 or more most frequent in (data set) countries
   1. Can also look at continents as well?

**Figure 5.** Analysis of N2 lifespan variation within the United States. Start with 20C, just look at geographic region. Then try with/without FUDR and manipulations

A. Pie chart of states/provinces (with percentages)

B. alive on day 15 for all states/provinces histo of 15, 20, 25C

C. alive on day 20 for all states/provinces histo of 15, 20, 25C

D. alive on day 25 for all states/provinces histo of 15, 20, 25C

E. Average of averages for top 3 most frequent states (CA, MI, MA) of 15, 20, 25C; add southern state?

* 1. Consider looking at second largest data set (China) as well

**Figure 6. Joseph’s figure… :D**