**Physiological Indicators (Response) Change Log (5/19/22)**

**Major changes:**

* Replicates are clearly designated in both Column B and Column H (i.e. Cycles -1 and 2 use the same naming convention)
* New columns K and L for *R* operations (i.e. Perform mean/sum on column K variables w/replicates)
* All variable descriptions are harmonized
  + I.e. “Serum Herpes Simplex Virus Type 1 (I)” antibody instead of “Herpes I, Herpes Type 1, Herpes Virus Type I”, etc.
* i.e. Variable descriptions start with “Urinary” or “Serum” for easier sorting and filtering (as applicable)
* “Questionnaire” and “Response” have the correct “year\_code\_updated”

**Highlighted for transfer to “Chemicals” tab**

* Both index matched and related variables are highlighted in Column A in red
  + Column M: Used index match based on “variable\_codename” in Column A
  + Variables requiring unit conversions are highlighted in yellow in both Columns B and L

**Other Misc. Verification Checks**

* Column B “variable\_description” matches Column K “replicate\_codenames”, Column G “codename\_change”, and Column H “corrected\_variable\_codename”
  + # of “replicate 1/2” in Column B should correspond to #variables in Column H, vice versa
    - 365 replicate 1, 365 replicate 2, 10 replicate 3, 6 replicate 4
  + i.e. Variables with ‘replicate’ in Column B should have values in Column(s) G & H
  + i.e. No ‘replicate’ if there is ‘sum’ or ‘mean’ in Column L “statistic\_replicates”
  + In column B, there should be no ‘replicate’ text after a unit
* Any value in Column G “codename\_change”should have a value in Column H “corrected\_variable\_codename”, vice versa
* Any value in Column K “replicate\_codenames” should have a value in Column L “statistic\_replicates”, vice versa
* Column C “file\_name” does not have a value if it is a newly created row in 2022 and has a value in Column L “statistic\_replicates” (i.e. VNLBSUMREP)
* No blanks in Columns A, B, D, E, F, J
* Column J “year\_coder\_updated”
* Unmerged certain rows in “Questionnaire” tab