# How to prepare student response data files for AACR AutoReporter

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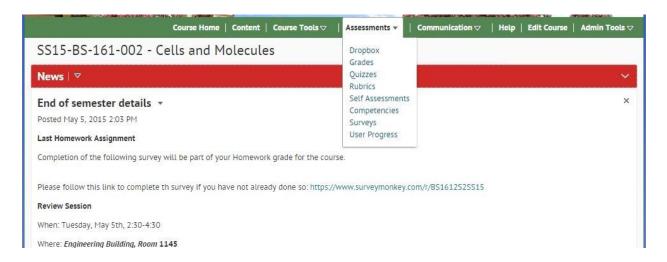
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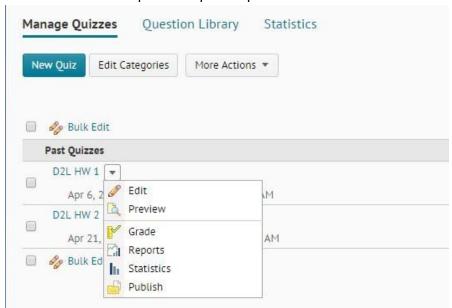
## Obtain data

At MSU, obtain data directly from D2L by following these directions:

- 1. Log in to D2L.
- 2. From the "Assessments" tab select the appropriate type of assessment.



- 3. If your assessment was a quiz, then go to Quizzes, Manage Quizzes.
- 4. Click on the little arrow to open the quiz drop-down menu:



- 5. Click on Grade, Export to Excel and download.
- 6. For your benefit and record-keeping, save the downloaded file in this format: [Instructor's last name] [Semester code] [Class ID] [AACR Question Name]

# Format the file (Mac version)

Before you upload student responses in AutoReporter, check that the *CSV* or *Excel file is free* from empty cells in the student response column. Otherwise, the app will not work as expected.

In the example shown below, there are empty cells in the column(s) that contain the student responses (highlighted in yellow):

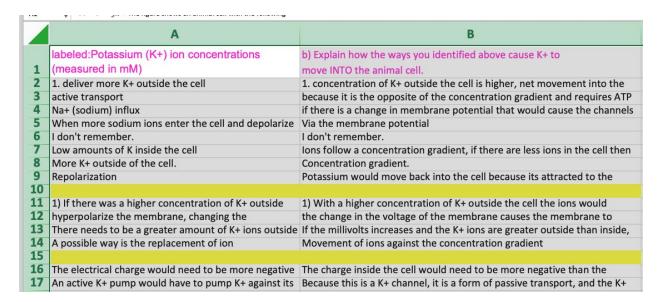
| A   | В   |
|---|---|
| labeled:Potassium (K+) ion concentrations             | b) Explain how the ways you identified above cause K+ to                      |
| (measured in mM)                                      | move INTO the animal cell.  |
| 1. deliver more K+ outside the cell                   | 1. concentration of K+ outside the cell is higher, net movement into the      |
| active transport                                      | because it is the opposite of the concentration gradient and requires ATP     |
| Na+ (sodium) influx                                   | if there is a change in membrane potential that would cause the channels      |
| When more sodium ions enter the cell and depolarize   | Via the membrane potential  |
| I don't remember.                                     | I don't remember.   |
| Low amounts of K inside the cell                      | Ions follow a concentration gradient, if there are less ions in the cell then |
| More K+ outside of the cell.                          | Concentration gradient.   |
| Repolarization  | Potassium would move back into the cell because its attracted to the          |
| 1) If there was a higher concentration of K+ outside  | 1) With a higher concentration of K+ outside the cell the ions would          |
| hyperpolarize the membrane, changing the              | the change in the voltage of the membrane causes the membrane to              |
| There needs to be a greater amount of K+ ions outside | If the millivolts increases and the K+ ions are greater outside than inside,  |
| A possible way is the replacement of ion              | Movement of ions against the concentration gradient                           |
| The electrical charge would need to be more negative  | The charge inside the cell would need to be more negative than the            |
| An active K+ pump would have to pump K+ against its   | Because this is a K+ channel, it is a form of passive transport, and the K+   |

## To delete empty responses using the Filter function in Excel

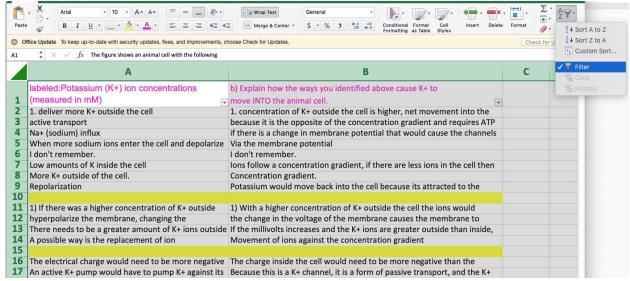
(Note: if you wish to view these instructions in video format, we suggest this tutorial. It is not identical to the steps below, but the final outcome (deletion of empty rows) is the same:

https://www.youtube.com/watch?v=gLO0Xcxklyc

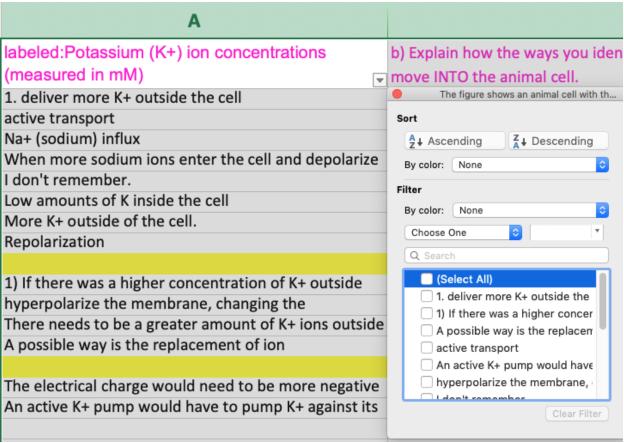
1. Move the cursor to the upper-left corner where there is a triangle within a square. Click on it to select the sheet:



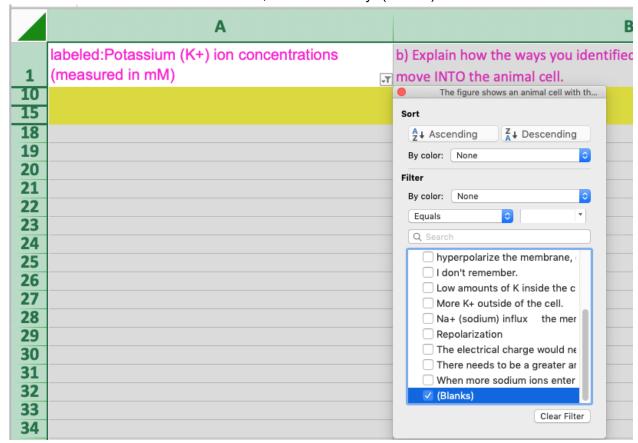
2. Locate the Sort & Filter button, click on it, and click on Filter. In the image below, the button is at the upper-right corner:



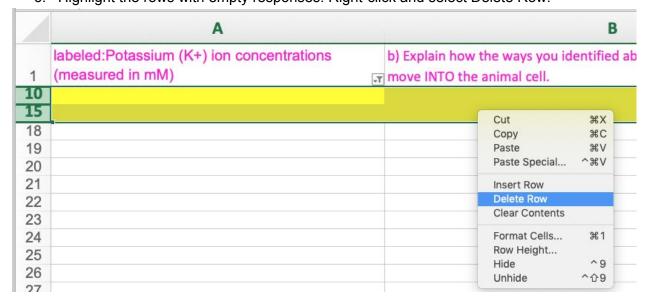
3. Click on the little arrow that appears on the top of the column with empty responses and unmark "Select all" in the Filtering pane (see the right side of the screenshot):



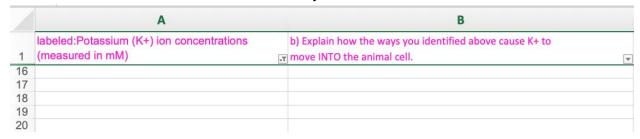
4. Scroll down on that little window, checkmark only "(Blanks)":



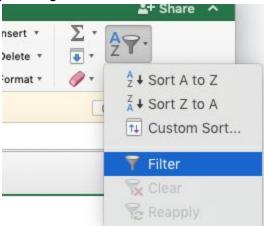
- 5. Now the sheet will show the rows with empty responses, marked with a bolded line under their row numbers (see left side of screenshot above).
- 6. Highlight the rows with empty responses. Right-click and select Delete Row:



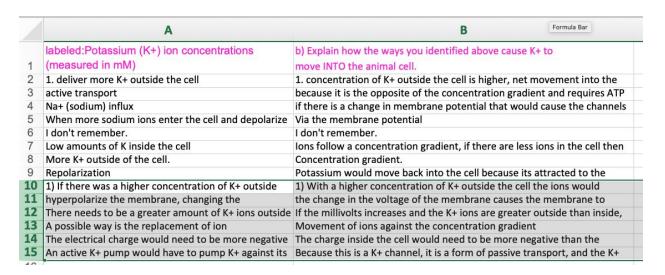
7. You will no longer see a bolded line under row numbers. This means that there are no more blank rows and that the rows that you selected were deleted:



8. Remove the Filter by clicking on Sort & Filter. Unmark Filter.



9. You should now see responses again on the sheet and no blank responses:



10. Save the file.

Your file should be now ready to upload it in AutoReporter.

# Format the file (Windows version)

Before you upload student responses in AutoReporter, check that the *CSV* or *Excel file is free* from empty cells in the student response column. Otherwise, the app will not work as expected.

In the example shown below, there are empty cells in the column(s) that contain the student responses (highlighted in yellow):

| ID | resp1  | resp2   |  |
|----|--|---|--|
| 22 | the concentration  | the concentration inside the cell would                       |  |
| 23 |  | There is a greater concentration outsid                       |  |
| 24 | To cause a new movement of K+ ions into an anim                                    | If you ingested not seeinm sich foods v                       |  |
|    | To repolarize a cell   | During an action potential k+ moves int                       |  |
|    |  |   |  |
| 26 | The concentration would have to be greater outs                                    | A greater concentration outside of the                        |  |
| 27 | There would have to be a higher concentration o                                    | If there is a higher concentration of K+                      |  |
| 28 |  | The K+ concentration inside the cell wo                       |  |
| 29 | The channel would have to close or the gradient                                    | If the channel closed, potassium would                        |  |
| 30 | If the concentration of K+ was higher outside of t                                 | It moves from a high concentration to                         |  |
| 31 | the membrane potential would have to change to                                     | ıld have to change to The resting membrane potential is -70 r |  |
| 33 | there is a flow of Na ions out of the cell this will cause the concentration gradi |   |  |
| 35 | After action potential   | After the action potential but before th                      |  |
| 36 | Na+ would need to be present to have K+ move in                                    | Na+ and K+ are always on separate side                        |  |
|    |  |   |  |
|    | More sodium in the cell moving out of the cell. C                                  |   |  |
| 39 | There would have to be a higher concentration of                                   | K+ moves from areas of higher concent                         |  |
| 18 |  | That is when an action potential occurs                       |  |
| 19 | The concentration of K+ being higher outside the                                   | Because K would move down the conce                           |  |
| 21 | K+ concentration is lower inside the cell than out                                 | K+ will move from concentrations of hi                        |  |
| 22 | the concentration  | the concentration inside the cell would                       |  |

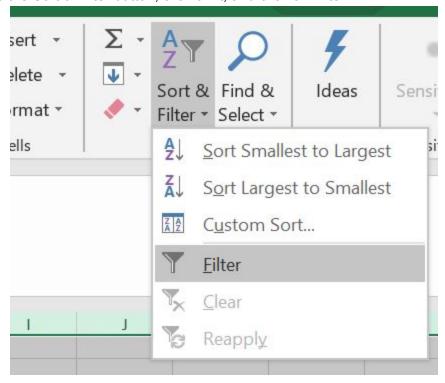
# To delete empty responses using the Filter function in Excel

(Note: if you wish to view these instructions in video format, we suggest this tutorial: https://www.youtube.com/watch?v=gLO0Xcxklyc

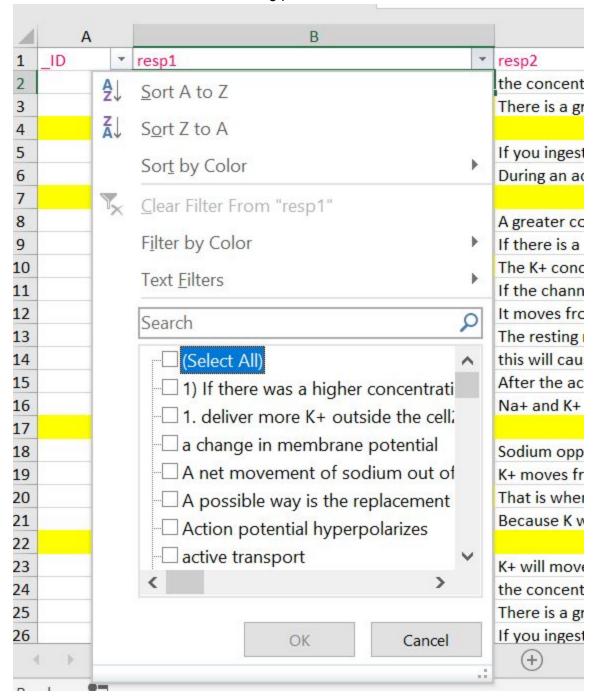
1. Move the cursor to the upper-left corner where there is a triangle within a square. Click on it to select the sheet:

| 1  | А   | В  | С                                 |
|----|-----|--|-----------------------------------|
| 1  | _ID | resp1  | resp2                             |
| 2  | 22  | the concentration                                  | the concentration inside the co   |
| 3  | 23  |  | There is a greater concentration  |
| 4  |     |  |                                   |
| 5  | 24  | To cause a new movement of K+ ions into an anir    | If you ingested potassium-rich    |
| 6  | 25  | To repolarize a cell                               | During an action potential k+ r   |
| 7  |     |  |                                   |
| 8  | 26  | The concentration would have to be greater outs    | A greater concentration outsic    |
| 9  | 27  | There would have to be a higher concentration o    | If there is a higher concentrati  |
| 10 | 28  |  | The K+ concentration inside th    |
| 11 | 29  | The channel would have to close or the gradient v  | If the channel closed, potassiu   |
| 12 | 30  | If the concentration of K+ was higher outside of t | It moves from a high concentr     |
| 13 | 31  | the membrane potential would have to change to     | The resting membrane potenti      |
| 14 | 33  | There is a flow of Na ions out of the cell         | this will cause the concentration |
| 15 | 35  | After action potential                             | After the action potential but I  |
| 16 | 36  | Na+ would need to be present to have K+ move in    | Na+ and K+ are always on sepa     |
| 17 |     |  |                                   |

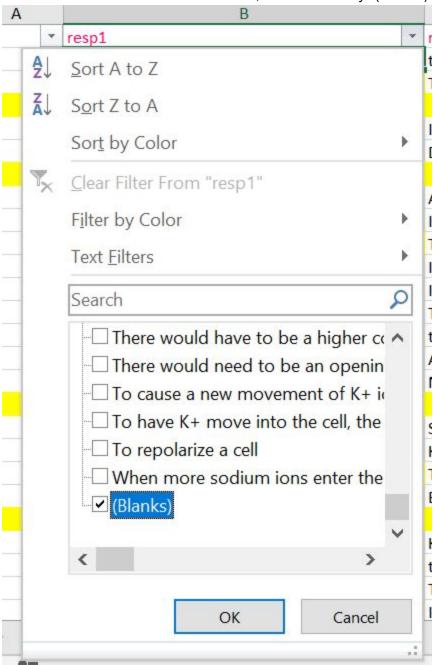
2. Locate the Sort & Filter button, click on it, and click on Filter.



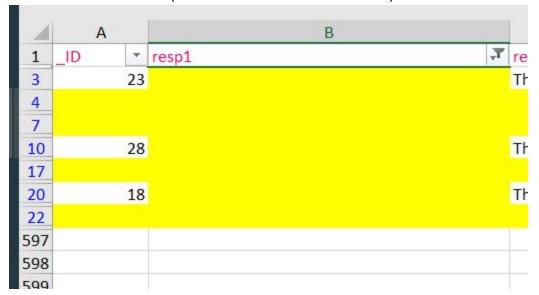
11. Click on the little arrow that appears on the top of the column with empty responses and unmark "Select all" in the Filtering pane:



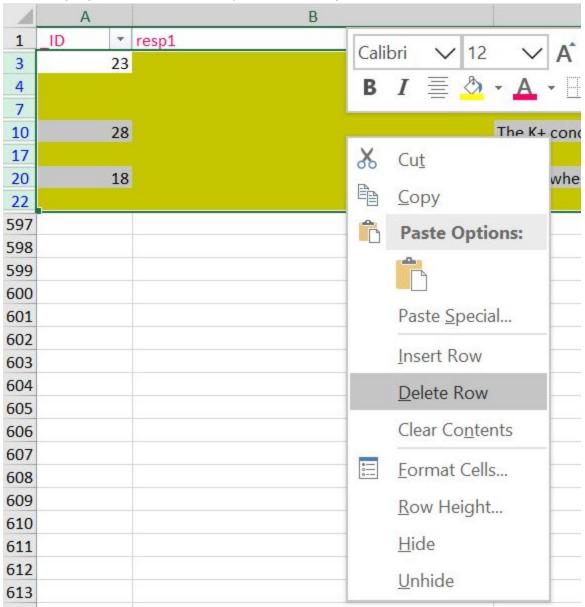
12. Scroll down on that little window, checkmark only "(Blanks)." Click on "OK":



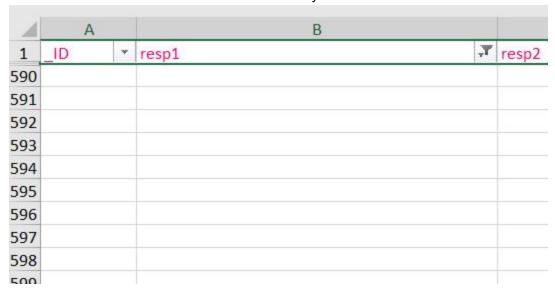
13. Now the sheet will show the rows with empty responses, marked with a double line under their row numbers (see left side of screenshot above).



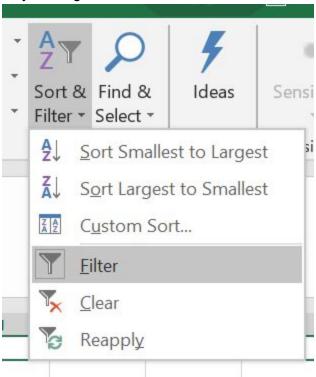
14. Highlight the rows with empty responses. Right-click and select Delete Row:



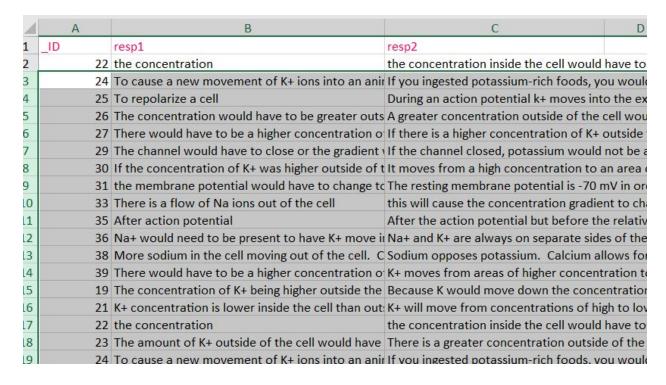
15. You will no longer see a bolded line under row numbers. This means that there are no more blank rows and that the rows that you selected were deleted:



16. Remove the Filter by clicking on Sort & Filter. Unmark Filter.



#### 17. You should now see responses again on the sheet and no blank responses:

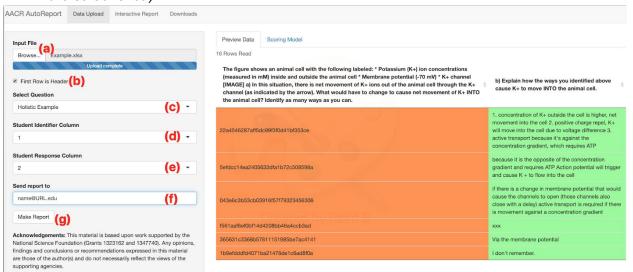


#### 18. Save the file.

Your file should be ready to upload it in AutoReporter.

# To upload a file in AutoReporter

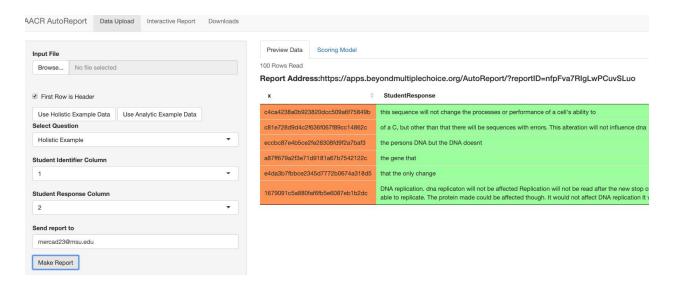
- 1. Go to <a href="https://apps.beyondmultiplechoice.org/AutoReport/">https://apps.beyondmultiplechoice.org/AutoReport/</a>
- 2. (Note: Instructions below the screenshot correspond to the (a) through (g) symbols in the screenshot.)



- (a) Click on Browse and choose your file
- (b) If the first row of your file has a "header" (e.g., column title, question), leave the "First Row is Header" checkmarked. If it has responses (no column header), uncheck the option.
- (c) Select the question
- (d) Select the student identifier column. If none, choose "None"
- (e) Select the column number with the student responses
- (f) Type your e-mail address
- (g) Click on Make Report
- 3. After you clicked on "Make Report", you should see a progress bar at the bottom-right of the page:



4. When the process is ready, you will receive an e-mail from <a href="mailto:aacr.report@gmail.com">aacr.report@gmail.com</a> with subject "Your AACR Instructor Feedback Report" and the page will display "Report Address" and a link as show below:



(Note: Please do not respond to the e-mail from <a href="mailto:aacr.report@gmail.com">aacr.report@gmail.com</a>. It is not a monitored account. If you cannot find the e-mail, check in your spam e-mail folder.)

#### To access thereport in that same moment:

Click on the Interactive Report tab at the top of the screen.

## To access the report later:

Go to the e-mail that you received and click on the link.

## To download a PDF copy of your report:

Click on the Downloads tab at the top of the screen and then on "Download PDF."

## To download predictive scores for each of your student responses:

Click on Downloads at the top of the screen and then on "Download CSV."

# For additional help

If you need more help on how to use the report that was generated, please follow the guidelines found in this document:

https://apps.beyondmultiplechoice.org/Using%20the%20AACR%20Reports%20V3.pdf

If you run into issues that you cannot solve using this guide (e.g., a grey screen appeared), please contact M. M. Santiago at <a href="mailto:mercad23@msu.edu">mercad23@msu.edu</a>. We will do our best to respond to your request within 48 hours.