Revised guidelines for Project One report

These guidelines have been inspired by the instructions for authors of the journal *iScience*. You should write your report in a scientific article format appropriate for submission to this journal. The appropriate format for your manuscript is briefly outline below.

The total word limit, **excluding** references, title, authors, affiliations, figure/table legends, authors' contributions, appendices and supplementary information, is 4000 words maximum. Suggested maximum word counts are provided for each section as a guide to help you distribute content appropriately. As they are 'suggested', you may vary the word count as necessary but the final overall maximum word count is to be 4000 words . Also, keep in mind that the maximum word count does not need to be reached; you may be able to address the necessary content with fewer words but do not exceed the 4000 word limit. It is content quality, not quantity, that will be rewarded.

IMPORTANT NOTE
Content exceeding the 4000 word limit will **not be read** by markers so it **will not be considered** when marking.

Style

- Font: Times New Roman, size 12
- Double spaced
- Margins: 2cm.

Title (Less than 12 words OR 150 characters maximum)

- Should be informative and provide an overview of the topic and the results
- Avoid jargon, punctuation and abbreviations

Ex: High protein diet decreases food intake in young adults

Authors/Affiliations (no word limit)

- Provide the SID number of each team member. Please do not include student names.
- Next to each SID number add a number in superscript (this will be used for Affiliation)
- **Affiliation** will start with the number and then specify the unit of study as in the following example:

Ex : 132546792[1], 234567890[2], 345678901[3]

1. PHSI3888, The University of Sydney NSW 2006
2. NUTM3888, The University of Sydney NSW 2006
3. STAT3888, The University of Sydney NSW 2006

Abstract (200 words **maximum**)

- To be written as a single paragraph
- Start with one sentence of background
- Next, one sentence stating the problem/limitation in the field or question to be answered
- Then describe briefly the results in a few sentences and identify the main methods used
- Finish with one concluding sentence including, if possible, the broad significance of the work
- Do not include any references and if necessary, only a limited number of abbreviations (2-3 maximum).

Introduction (approximately 700 words)

The introduction will give the background necessary for any scientist outside the field to understand the project. The introduction will be written in paragraph form with no subsection titles.

- Start with a broad statement, such as 'Obesity affects XY% of individuals in Australia.' or 'The cost associated with obesity in Australia is XY billion per year.'
- Then state the problem or question to be answered; for example, 'There are XY% of overweight people in Australia but whether poor nutrition is the main cause is still unclear'.
- Next provide enough background information to set the scene/give context to your project. Any new molecule or concept will be defined here. What is already known in the field will also appear in this section.
- When first used, abbreviations must be defined/written out in full; for example, 'Type 1 Diabetes (T1D)'.
- You can finish with a maximum of 3 sentences explaining your main research findings.

Results (approximately 1500 words)

- This section should have subsections with titles.
- Subsection titles should be in **bold**.
- Start each subsection with one sentence of introduction and finish with one sentence summarising the main findings.
- Use short and accurate sentences; do not overinterpret the data. Each Results paragraph should be succinct. The Discussion is where the results are discussed/interpreted.
- Figures and tables should be informative, persuasive, and features of the plot (text/lines) should be clearly visible (plots should be uncluttered).
- Each figure and table should have a number, title/caption, and a legend that clearly explains what is represented in the figure/table. Be sure to include the sample size (n) and the statistical analysis used.
- Units of measurement (e.g. 'g') do not need to be written out but all other abbreviations should be provided in full the first time used for **each** figure and table.
- The figure/table legend should provide enough detail for the reader to fully understand the figure/table independent of the section's text.
- Graphics should be consistent between figures/tables; for example, the same colour being used for a particular group throughout all figures.
- Use appropriate number of decimal places where numeric values are stated.
- Variables should be human readable. For example, the BMISC variable could be displayed as BMI.
- If the methodology cannot be concisely described, refer the reader to the Supplementary Material. Enough detail should be used so that the reader does not need to refer to the R code in the Supplementary Material in order to reproduce the results.

Discussion (approximately 700 words)

- The aim of the discussion is to explain why the findings are important and significant as well as how they can be placed in a broader context; for example, 'We found that the dietary polyphenol X inhibits the oncogene Y. This suggests that polyphenol X could be a novel promising method to treat cancer.'
- At the start, briefly summarise the main exciting findings and then interpret them.
- Do not repeat your results in this section and do not refer to the figures; for example, do not say "as shown in Fig. 1A XYZ".

Limitations of the study (approximately 150 words)

- Discuss the caveats of the project and what would be needed to overcome them.

Methods (approximately 700 words)

- Give enough details for the reader to fully understand what you did and how you did it; such as the study design, type(s) of analysis(es), resources & materials used, etc.
- State which variables and subpopulation being analysed, and the models used in the Results section.

Authors contribution (no word limit)

To make author contributions transparent, all research articles should include an Author Contributions section. Please describe the contributions concisely and use the SID number to indicate author identity. We encourage you to use the CRediT taxonomy, which offers standardized descriptions of author contributions.

References (no word limit)

- Should be peer reviewed, primary research papers
- Websites and lecture notes are **not** acceptable as references. The only exceptions are the World Health Organization and Australian Bureau of Statistics websites.
- Use Vancouver formatting for in-text referencing and the Reference List.
- We suggest limiting your total number of references to less than 50. As stated earlier in these instructions, it is not the quantity but the quality of what you use or how something is used that affects your mark.

Supplementary Material (no word limit)

The aim of this section is to provide sufficient information to allow the **analysis** you used to be reproduced.

Attach a zip file containing:

1. An R markdown file (.Rmd) that reproduces all of the analysis contained in the Manuscript/Report.
2. A R project file (.Rproj) for the project.
3. A HTML or PDF file of the knitted report (both is okay too).
4. Images and/or word document files that can be directly used in the report.
5. Any other files needed to compile the report.

The root directory of the zip file should be called PROJECTX_TEAMY where X is 1 or 2, and Y is your team number, and the zip file should be produced maintaining the directory structure. The supplementary material document should contain no-raw R output, figures and tables should be captioned, and code should be commented. The structure of the Supplementary material should include

1. Aims of the analysis.
2. Brief description of the data.
3. Sections corresponding to each of the analyses included in the main manuscript/report with as much detail as needed so that the methods used can be reproduced without referring to the code.

Assignment Submission

- Due 20 November 2020 at 17:00
- Submitted via Canvas as a PDF file
- One submission per group
- The assignment file name should be ‘Project One Team X’ where ‘X’ is your team number.

- Be sure to include SID numbers (no names) for all group members in the header of the first page of your manuscript.
- Turnitin will be used to assess text matching.