Using infographics to revitalise a physiology communications skills assessment. **Derek Scott & Alison Jenkinson**

HAT HOLDS DNA STRANDS TOGETHER?

A strands are held together by hydrogen bonds between bases on adjacen

FROM DNA TO PROTEINS

ords', or codons, which code for different amino acids - the building blocks

cid), it does this by igiliting apart the two strands that form the double helis, the leading a strand and copying the sequence of nucleotides. The only difference etween the FINA and the original DAA is that in the place of thymine (T), anothe

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RNA PROTEI

-H—N 🕕 🕅

⊷(@)n=H-----N(@)

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Introduction

- Poster presentations to communicate knowledge are a commonly used undergraduate assessment tool.
- However, it is a challenge for students to deliver clear and detailed information whilst minimising volume of text on the poster.
- Infographics are progressively being used to demonstrate key scientific concepts in simple graphical form and developing students to effectively communicate with both a scientific audience and the general public is increasingly important within an academic curriculum (see Figure 1).
- To enhance communication skills and student engagement in this process we adapted an existing research project assessment and increased the emphasis on public communication skills with the use of

Feedback & Results

| | | | Likert score descriptors | |
|---|---------------|------|--------------------------|------------------|
| Question | Mean Response | SEM | Score of 0 | Score of 10 |
| Importance of topic YOU chose? | 8.65 | 0.19 | Not at all | Very |
| Easy to find/choose topic? | 6.63 | 0.30 | Very hard | Very easy |
| Work on own or team? | 2.46 | 0.38 | On my own | Part of a team |
| How easy to develop infographic | 4.30 | 0.29 | Very easy | Very hard |
| How easy to access/gather scientific content? | 4.50 | 0.34 | Very easy | Very hard |
| How easy to simplify scientific material to fit? | 5.17 | 0.32 | Very easy | Very hard |
| How easy to format/look good? | 4.72 | 0.35 | Very easy | Very hard |
| Rate enjoyment | 8.07 | 0.24 | Not at all | Very much |
| Compare infographic with standard poster in terms of how it looks | 8.83 | 0.21 | Much worse | Much better |
| Compare infographic with poster in terms of scientific info/content | 8.13 | 0.25 | Much worse | Much better |
| Satisfaction with infographic | 7.77 | 0.19 | Not at all | Very satisfied |
| Enough time for project? | 8.52 | 0.24 | Not enough | More than enough |
| Online or printed? | 3.13 | 0.36 | Online | Printed |

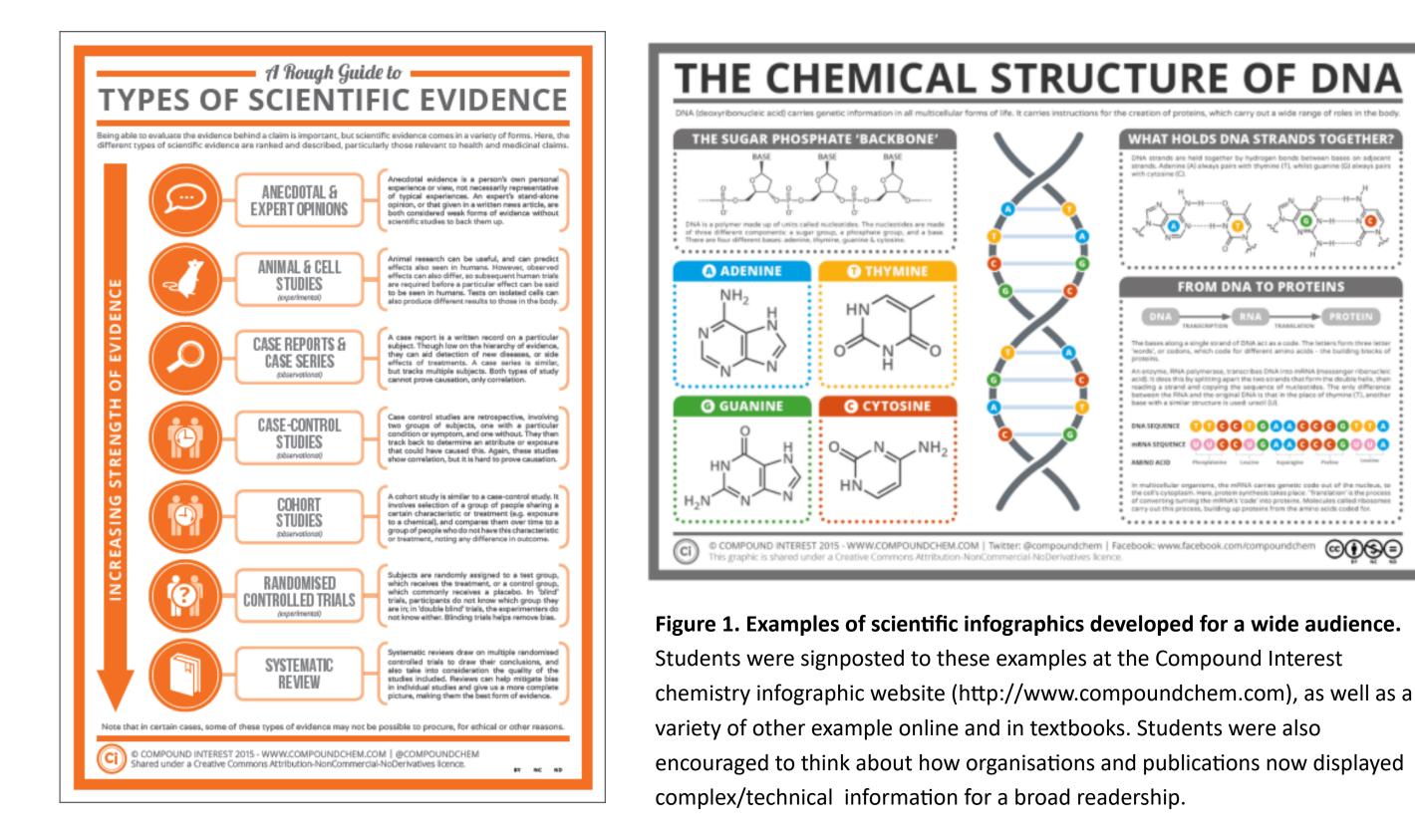
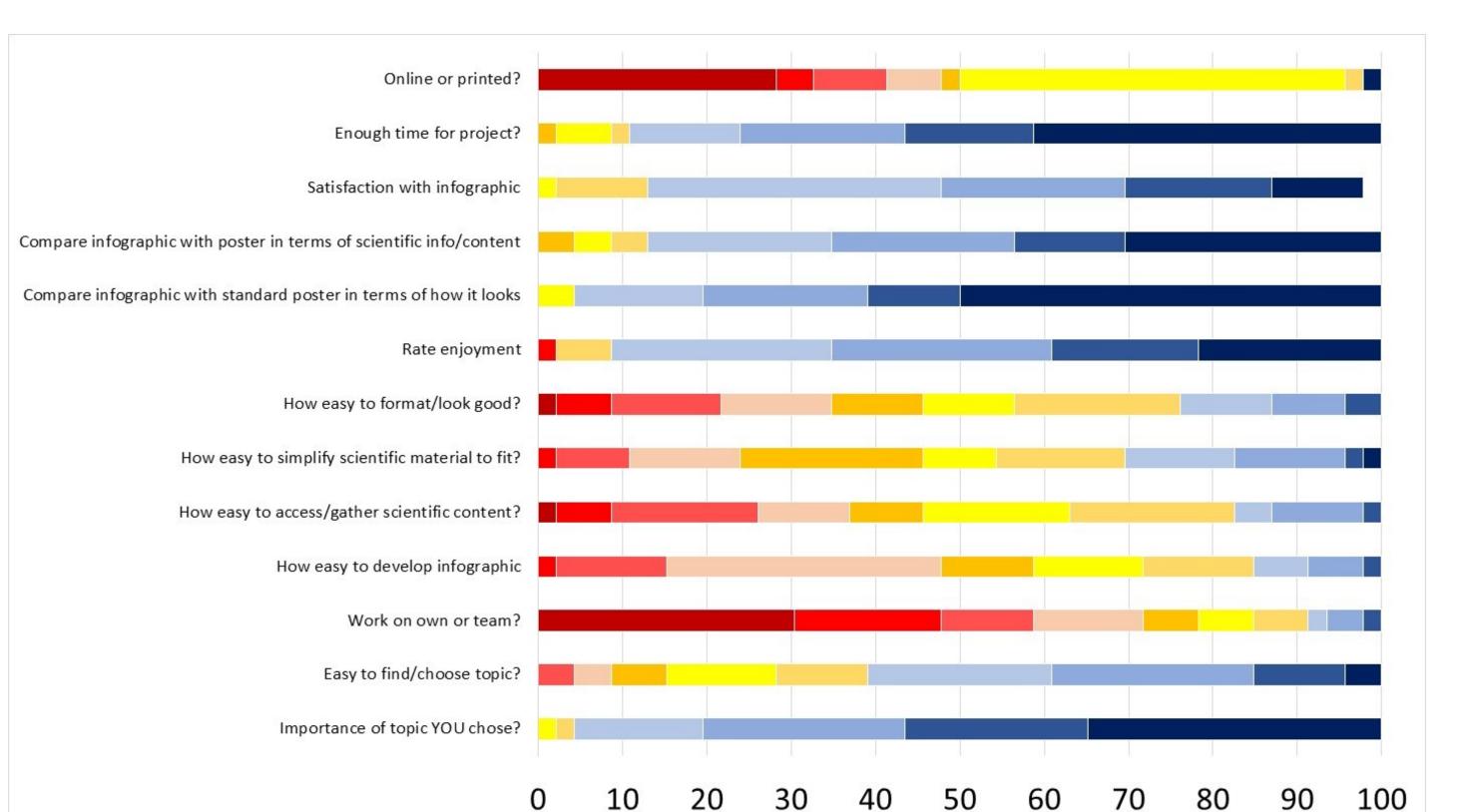
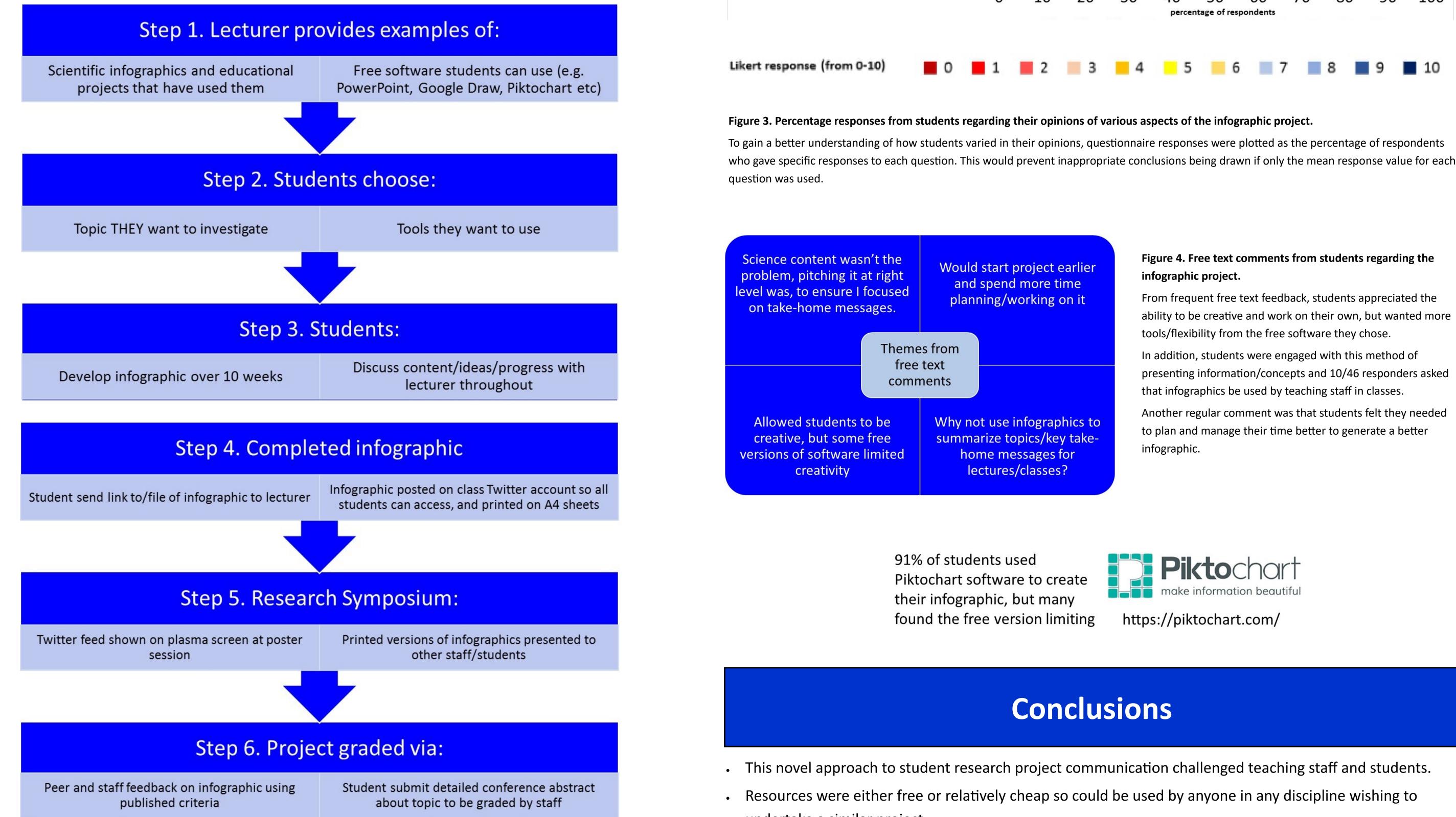


Figure 2. Mean responses from students regarding their opinions of various aspects of the infographic project.

A variety of questions were posed to gain feedback regarding how effective and enjoyable students had found participating in the project and developing their infographic (n = 46).



Project Outline



- We trialled this project with a Level 3 course (PY3002 Integrative Physiology), that had a mix of students of different disciplines, students articulating from FE colleges, and international exchange students. This course had previously used traditional scientific poster projects.
- At the end of the course, an anonymous, voluntary feedback questionnaire was circulated to the class. Likert scores were used to record opinions for each question.
- Of a class of 50, 46 students responded with feedback on this pilot initiative.

- undertake a similar project.
- Students seemed to feel positive about the project, were very engaged, and willing to be creative. No individual project was even remotely similar to another.
- Students appeared to give more thought as to how information should be presented and delivered for different audiences and became more critical of their own work.
- We fell this pilot initiative has been a success in terms of revitalising a project assignment, whilst teaching participants new skills and helping them further develop a range of graduate attributes.