CO-DESIGNING PLANETARY HEALTH EDUCATION FOR BIOMED STUDENTS

Shania R Desouza, Ziona Kumar, Naree Khuon, Reyhan Akhtar & Chantal C Hoppe
Department of Anatomy & Developmental Biology, Biomedicine Discovery Institute, Monash University, Victoria, Australia

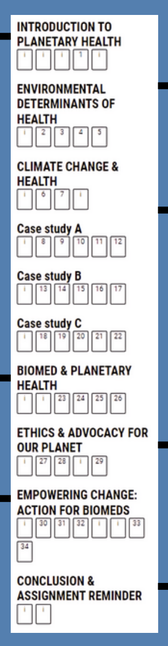
Our aim is to Integrate Planetary Health into the Biomedical Science Curriculum to Enhance Future Graduate Job-Readiness.
How? Introduce a Comprehensive Planetary Health Module that is Relevant to First-Year Biomed Students

MODULE CREATION:

Module rationale

Intersection of Biomedical issues and Planetary Health

Role of Planetary Health in GIG program



Relationship between environmental and human health

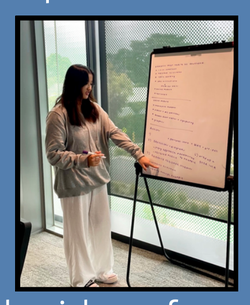
Real-world case studies: impact of climate change on human health

Ethical considerations of Planetary Health

Expectations for assignment integration clarified

PRE-PILOT WORKSHOP:

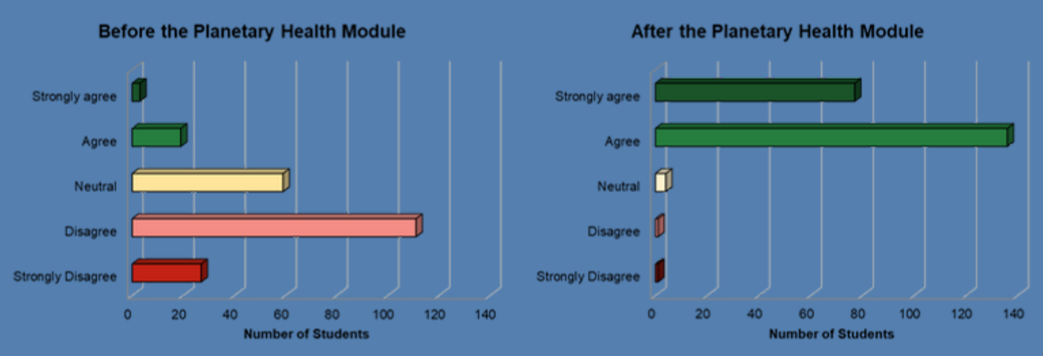
Dr Liza Barbour introduced the co-design approach
and Planetary Health principles.



As a result of this we came up with the idea of creating a multimodal module to incorporate these principles into a large first year core Biology unit in the Biomed degree (n=700 students).

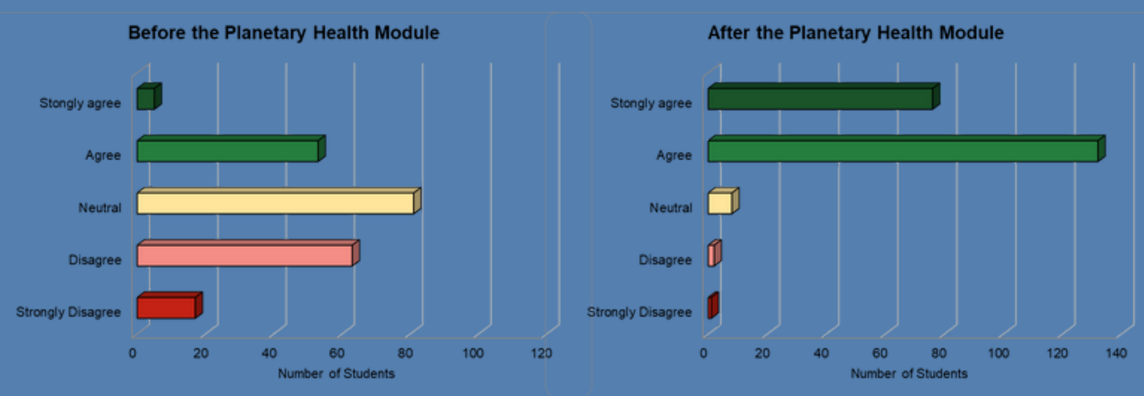
DID STUDENTS GRASP PLANETARY HEALTH?

I know how best to explain what planetary health means for biomedical science professionals.



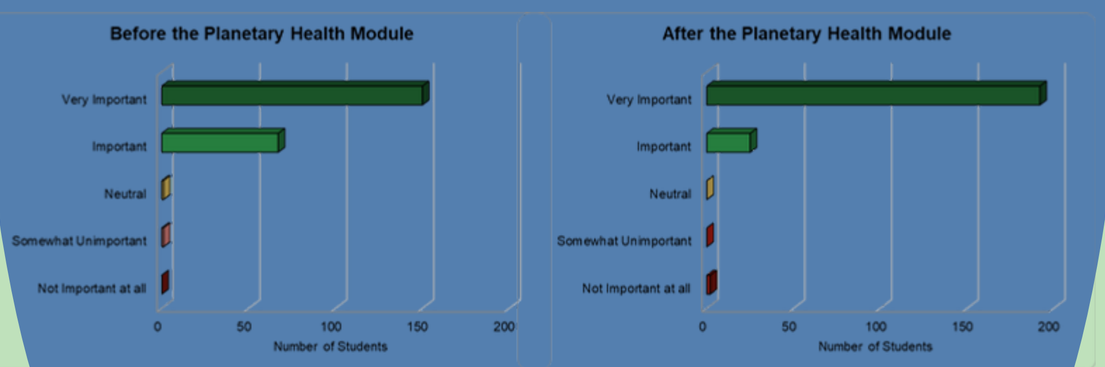
A paired samples t-test: Difference between pre- and post- was significant t(218) = 29.8, p<.001, and large d=5.77

I know what biomedical science professionals in my field can do to address the causes and consequences of climate change.



A paired samples t-test: Difference between pre- and post- was significant t(218) = 20.5, p<.001, and large d=6.27

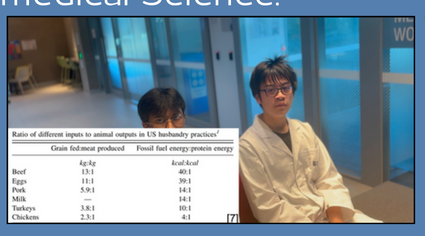
How important do you think understanding planetary health is for biomedical science professionals?



A paired samples t-test: Difference between pre- and post- was significant t(218) = 4.4, p<.001,but small d=0.59

PLANETARY HEALTH: FROM MODULE TO SCREEN:

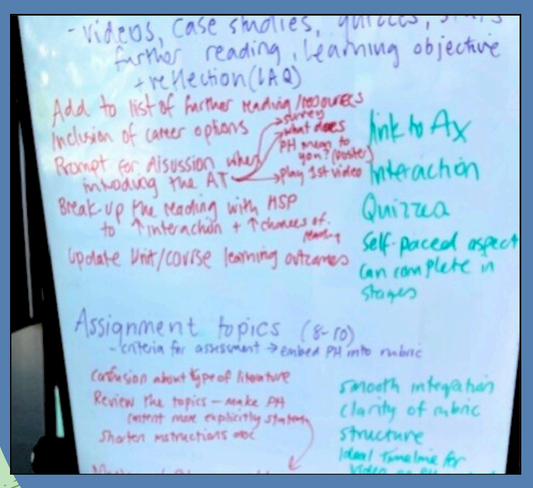
Integration of Planetary Health (with the help of the Module) into Biology topics aimed to enhance students' understanding of its significance in Biomedical Science.



Examples of students Scientific Communication presentations above, integrating Biomed and Planetary Health

POST-PILOT WORKSHOP:

Reflection on the co-design process and discussion of changes to module for future implementation.



Upcoming changes

- Inviting professionals in the field of Biomedical Science to share how their work relates to Planetary Health.
- Incorporating the module information into a lab-based activity to encourage discussion about Planetary Health amongst groups.
- Sourcing of a reading/resource list for interested students, to support research.

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