SUPPLEMENTARY MATERIAL

Fisher, C.R., Thompson, C.D., & Brookes, R.H. (2022). Levels of Science Identity, Belonging and Experiences of Discrimination for Commencing Science Students at an Australian University. *International Journal of Innovation in Science and Mathematics Education*, *30*(2), 1-13.

Theme	Question items	Reference
Science identity	In general, my interest in science is an important part of my self-	Chemers et
	image.	al. (2011)
	My interest in science is an important reflection of who I am.	
	I feel like I belong in the field of science.	
	I have a strong sense of belonging to the community of scientists.	
	I am a scientist.	
Belonging	I feel that I belong to the scientific community.	Good et al.
1. Membership	I consider myself a member of the scientific community.	(2012)
	I feel like I am part of the scientific community.	
2.4	I feel a connection with the scientific community.	
2. Acceptance	l feel like an outsider.	
	I feel accepted.	
	I feel respected.	
	I feel uisregatued.	
	I feel valueu.	
	I feel appreciated	
	I feel excluded	
	I feel like I fit in	
	I feel insignificant.	
3. Affect	I feel at ease.	
55	I feel anxious.	
	I feel comfortable.	
	I feel tense.	
	I feel nervous.	
	I feel content.	
	I feel calm.	
	I feel inadequate.	
4. Desire to fade	I wish I could fade into the background and not be noticed.	
	I try to say as little as possible.	
	I enjoy being an active participant.	
D	I wish I were invisible. I with $C = 1$ and $C = 1$	T 1 1
Perceived identity	I don't think that my gender will affect now others view me in my	London et al. (2011)
compatibility	Inajoi. I don't think that my gender will affect how wall I do in my major	(2011)
between gender	I don't dinik that my gender win arreet now wen't do in my major.	
and major	I think my gender and my major are very compatible	
una major	I think I have experienced difficulties in my major because of my	
	gender.	
	I think my gender will be an important factor in the type of career I	
	decide to pursue.	
	I don't think I would pursue certain fields because of my gender.	
Gender biased	Women in my major experience discrimination.	Ganley et al.
science majors	Women have a hard time succeeding in my major.	(2018)
	My major is more welcoming to men than it is to women.	
	What percentage of students in this major do you estimate are	
	women? (0-25, 26-35, 36-45, 46-55, 56-65, 66-75, 76-100%)	

Table S1. Final Questionnaire Items

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Table S2. Inter	rnal consistency	v reliability o	of survey	sub-scales.
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Scale	Cronbach's α
Science identity	0.83
Belonging – Membership	0.93
Belonging – Acceptance	0.90
Belonging – Affect	0.89
Belonging – Desire to fade	0.79
Perceived identity compatibility between gender and major	0.68
Gender biased science majors	0.86

Table S3. Codebook for qualitative analysis.

Theme	Theme description	
No gender issues in science	Students reporting no direct issues of bias or discrimination	
	while at university in the science fields so far	
Discrimination	Students reporting personal experiences of discrimination while	
	studying science at university	
a. Against women	Female students reporting experiences of discrimination	
b. Against men	Male students reporting experiences of discrimination	
Gender imbalance in STEM	Students directly discussing gender ratios in science classrooms	
Confidence	Students discussing issues of confidence or doubt in their ability	
	in the science fields	
Parents	Students discussing the influence of their parents	
Transgender issues	Students discussing experiences relating to their transgender	
_	identity	

Table S4. Fisher's exact test (two-sided) for demographic variables.

Demographic variable	<i>p</i> -value
Ethnicity	0.28
First-generation student status	0.93
Previous science experience	0.13
High achieving student	0.42
Mature age status	0.22