

# Synopsis of Revisions Based on Reviewer Feedback

Following expert review of the original item pool, revisions were implemented to enhance the **clarity, content validity, and construct alignment** of the Perceived Bio-Inspiration scale. The main changes include:

## 1. Improved Clarity of Item Wording

Several items across all three subdimensions were refined to increase readability and comprehension for lay participants. This was in response to feedback from multiple reviewers who expressed uncertainty about clarity, especially regarding technical language and abstract phrasing. Specifically, we removed terms referring to “biology” and “bio-inspired research” as experts were skeptical that the words would be understandable to a layperson audience.

## 2. Strengthened Construct Representation

Items were rephrased or slightly adjusted to better reflect the theoretical meaning of their respective subdimension:

- We replaced all references to “nature” with references to the “natural world”
  - i. *“‘Nature’ and ‘culture’ constitute a word pair whose interplay has varied through history and has been described by numerous authors. They are often regarded as two discrete opposite sides of a dualism, whereby culture typically denotes everything that is anthropogenic, in contrast to non-man-made ‘living nature’ (biotic, i.e. plants, animals, fungi, bacteria)*

*and ‘non-living nature’ (abiotic, i.e. stones, liquids, gases). From Speck et al. 2017.”*

- We removed the *Functional Analogy (FA)* dimension entirely as it was not appropriate for the textual vignettes in the study.

### **3. Balanced Positivity/Negativity Across Items**

Reverse-coded or more nuanced statements (e.g., items highlighting artificiality or ambiguity in naturalness) were retained or introduced where appropriate to reduce acquiescence bias and enhance measurement balance.