Construction and validation of epistemological beliefs questionnaire for science in the Malaysian context

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ABSTRACT: The aim of the present study was to construct and validate epistemological beliefs questionnaire for science (EBQS) in Malaysia. A total of 357 participants from three different public universities in Kuala Lumpur, Malaysia participated in the study. Exploratory factor analysis (EFA), Parallel analysis, and confirmatory factor analysis (CFA) fit indices suggested an acceptable five-factor model. Group comparisons and significant positive correlations between subscales of EBQS and other constructs (i.e. implicit intelligence, CGPA, and General beliefs) provided further support for EBQS validity. In conclusion, the psychometric properties of EBQS showed that the instrument is a valuable addition to the assessment of epistemological beliefs about science in the Malaysian context.