Dear Dr Kousta,

We would like to submit a Stage 1 protocol titled “Assessing diversity and representativeness of big team science in psychology” to be considered for a “Registered Report” article in *Nature Human Behaviour.*

Over the past few years, big-team science has emerged as a transformative paradigm in psychological science and related fields, offering a potential remedy to challenges such as small sample sizes and the lack of diversity among both samples and researchers. Despite routine claims made by big-team science projects regarding representative samples, generalizable findings, policy implications, and diverse authorship, these claims have yet to be systematically tested.

Our registered report aims to fill this gap by conducting a comprehensive survey of sample and author characteristics across all available big team science projects in psychology and related fields. Additionally, we intend to investigate the influence of socioeconomic and cultural factors on the participation of researchers and participants in both big team science and traditional psychological research within a given country or region. Factors to be explored include GDP per capita, R & D investment, number of universities, number of psychology researchers, urbanization level, average years of schooling, globalization level, internet penetration rate, cultural distance, linguistic distance, and English proficiency. Taken together, these findings will offer the first empirical evidence regarding the representativeness of big team science. This meta-research will have important implications not only for psychologists but also for broader social sciences that heavily rely on large-scale human participants to derive generalizable insights about human behavior.

We kindly request the consideration of our manuscript for review in Nature Human Behaviour and hope that our research will contribute valuable insights to the scientific community.

We affirm our full commitment to the proposed research, with essential support in terms of funding and facilities. We commit to not accessing or coding any data sets beyond pilot data until acceptance in principle. Following acceptance of the initial proposal, we expect to complete the research and submit the Stage 2 manuscript within 12-18 months. We will open data and code on GitHub and OSF, and we commit to register the approved protocol in a recognized repository once it was accepted in principle. In the event of withdrawal, we agree that the journal may publish a brief summary of the pre-registered study in a section dedicated to Withdrawn Registrations.

Yours faithfully,

Weibiao Liu (School of Psychology, Nanjing Normal University, Nanjing, China)

Sakshi Ghai (Oxford Internet Institute, University of Oxford, Oxford, UK)

Patrick S. Forscher (Busara Center for Behavioral Economics, Nairobi, Kenya)

Hu Chuan-Peng (School of Psychology, Nanjing Normal University, Nanjing, China)