**SIPS Grant Proposal**

**Grants-In-Aid to Reduce Barriers to Improving Psychological Science**

**Contributors:** Alma Jeftic, Aishwarya Iyer, Neha Parashar, Nadia Corral-Frias, Natalia Dutra, Miguel Silan, Hans IJzerman

**Lead Contributor:** Alma Jeftic and Nadia Corral-Frias

**Title of the Project:** Collaborative Science: A Workshop on Doing Big Team Science for Researchers from Low and Middle-income Countries.

**Abstract summarizing the project in up to 480 characters** (~80 words):

To generate and test theories that represent different peoples, one needs representation & participation from different nations in large-scale collaborations. At present, such representation & participation is abysmal, and barriers to those are region-specific. We propose a 4-part online workshop that will generate openly accessible knowledge, training & project-based resources in regional languages as well as the development of a consortium to collaborate on future projects.

**Does the project involve human or animal subjects?** (no)

**Proposal**: [600 words]

We propose a 4-part workshop series on conducting collaborative science targeted towards researchers from low- and middle-income countries (LMIC). Researchers from Eastern Europe, Latin America, Africa & Asia, who have already been part of big-team science networks (such as the Psychological Science Accelerator, PSA) will be asked to share resources with scientists from their communities. We aim to reach 75-100 researchers from LMICs through the existing network of the PSA and social media-based recruiting.

Big team science networks (PSA, Moshontz et al., 2018; ManyLabs, Klein et al., 2014) have made strides in tackling replication in psychology by increasing sample size through large-scale, collaborative open science. Despite the prevalence of problems with generalizability in psychology for years (Henrich et al., 2010), little has been done to tackle them (IJzerman et al., 2021). These networks have not only struggled to recruit populations beyond those of European ancestry (Dunn et al., 2018), very few researchers outside of Europe and North America have had leadership roles in them (see Paris et al., 2020). Increasing diversity of represented populations beyond WEIRD communities remains a continued challenge for even the most well-intended networks (Byers-Heinlein et al., 2020).

One of the barriers keeping LMIC researchers from participating and leading big-team science is a producibility crisis (Doble et al., 2018; Silan 2021). They face larger obstacles of local and international underfunding (Srivastava, 2012), smaller pockets of research within larger nations, and an underdeveloped culture of fundamental research due to larger prominence of applied fields of psychology (Silan et al., 2021). By collaborating with large networks (i.e. PSA), scientists from LMICs can harness knowledge-hubs of hidden curriculum (academic/ grant writing, international financial resources and methodological review) to conduct independent research. Therefore, increasing participation of diverse researchers in big team science and taking a first step in reducing psychology’s problems with generalizability.

We propose:

1. An introduction to how big team networks, like the PSA, conduct large scale & open scientific studies through pre-registration, transparency of materials & data and open access publishing. On 14th April 2022 with speakers - Dr. Chris Chartier, Dr. Nicholas Coles (Director, PSA).

2. A proposal, previously presented at PSACON21, on the development of a consortium of LMIC researchers. We also intend to survey the existing open/ collaborative science practices and barriers to conducting open science in these countries. On 15th April 2022 with speakers - Alma Jeftic, Neha Parashar, Aishwarya Iyer, Dr. Nadia Corral-Frias, Dr. Natalia Dutra, Miguel Silan.

3. Training: We propose 2 workshops: to generate 3-5 proposals to help diverse researchers secure international funding (Dr. Dana Basnight Brown, Dr. Thuy-vy Nguyen); and develop 1-3 project proposals towards the PSA’s call for proposals for Spring or Summer 2022 (Speakers: Dr. Lisa DeBruine, Dr. Chris Chartier, Dr. Kathleen Schmidt), to to be held on 15th April 2022.

4. Project: A Hackathon to generate project proposals for the first collaborative project of the consortium focused on populations from LMICs. Proposed on 16th April 2022 with moderators: Alma Jeftic, Dr. Biljana Gjoneska.

Deliverables: An OSF & Slack site with workshop resources, translated transcripts of sessions in Spanish, Arabic, Hindi, Mandarin, Bosnian/Croatian/Serbian & results from science practices survey.

**How it reduces barriers to psychological science:**

The proposed project aims to reduce barriers to psychological science by building on the knowledge resources of researchers from low & middle-income countries in collaborative science networks. By divulging such knowledge resources with scientists in their regional communities in a workshop series, we hope to increase participation of diverse researchers in big team science, taking a first step in reducing psychology’s problems with generalizability. However, we acknowledge that a primary obstacle for these researchers is access to international & national grant funding. This is why we hope to train attendees in writing grant applications especially for collaborative projects, so that they may access more grant-supported projects and take advantage of the network of researchers via a consortium to take on participatory & leadership roles in big team science networks.

**Budget:**

| No | Resource | Cost |
| --- | --- | --- |
| 1 | Mini Grant towards supporting diverse researchers:*As part of the Hackaton, proposing authors of the Consortium’s next research project may avail 2 grants of $600 each or 1 grant of $1200 towards steps (such as participant recruitment, garnering equipment, publishing fees) in the research process, that would otherwise impede their collaboration with the Consortium without monetary assistance. Eligibility for grant will be based on: Need for financial assistance, Contribution to increasing diversity in psychological science, Budget iterating the resources needed, prior research activity of participants.* | $1200 |
| 2 | Translators x 7 *(To translate workshop materials into Spanish, Mandarin, Hindi, Portuguese, Arabic, Bosnian/Serbian/Croatian/Montenegrin[[1]](#footnote-0), Macedonian, Tagalog)* | $100 x 8 = $800 |
| 3 | Intern x1*Responsibilities include: Sending emails to presenters and attendees, organizing schedules & resources to be uploaded on the website, social media engagement, coordinating with translators to ensure availability of translated materials.* | $500  |
|  | Total | $2500 |

**Author Contributions:** Conceptualization: A.I, A.J, N.P., N.D., N.C.F., M.S; Writing- Original draft: A,I, A.J, N.C.F, N.P. ; Writing - Reviewing & editing: N.C.F, H.I, M.S., N.D.

**References:**

Byers-Heinlein, K., Bergmann, C., Davies, C., Frank, M. C., Hamlin, J. K., Kline, M., ... & Soderstrom, M. (2020). Building a collaborative psychological science: Lessons learned from ManyBabies 1. *Canadian Psychology/Psychologie Canadienne*, *61*(4), 349.

Doble, J., Sio, C., & Clemente, J. A. (2018, September 20–22). The current crisis of psychology research in the Philippines: Reproducibility or producibility? [Conference session]. *Psychological Association of the Philippines 55th Annual Conference, Manila, Philippines.* <https://osf.io/ybgsu/>

Dunn, E. C., Sofer, T., Wang, M. J., Soare, T. W., Gallo, L. C., Gogarten, S. M., ... & Smoller, J. W. (2018). Genome-wide association study of depressive symptoms in the Hispanic Community Health Study/Study of Latinos. *Journal of Psychiatric Research, 99,* 167-176.

Frith, U. (2020). Fast lane to slow science. *Trends in Cognitive Sciences*, *24*(1), 1-2.

Henrich, J., Heine, S. J., & Norenzayan, A. (2010). Most people are not WEIRD. *Nature*, *466*(7302), 29-29.

IJzerman, H., Dutra, N., Silan, M., Adetula, A., Brown, D. M. B., & Forscher, P. (2021). Psychological Science Needs the Entire Globe. *APS Observer*, *34*(5).

Jones, B. C., DeBruine, L. M., Flake, J. K., Liuzza, M. T., Antfolk, J., Arinze, N. C., ... & Sirota, M. (2021). To which world regions does the valence–dominance model of social perception apply?. *Nature Human Behaviour, 5*(1), 159-169.

Klein, R. A., Ratliff, K. A., Vianello, M., Adams Jr, R. B., Bahník, Š., Bernstein, M. J., ... & Nosek, B. A. (2014). Investigating variation in replicability. *Social Psychology,* 45(3). 142-152.

Srivastava, R. (2012). Social Science Research in India in a Medium-term Perspective. *Economic and Political Weekly,* 47(11). 19-23.

Massarani, L., Rodrigues, M., Kaze, B. L., Badr, H. & Mazouzi, R. (2021). Open access ‘excludes’ developing world scientists. Sci Dev Net. Retrieved from: <https://www.scidev.net/global/features/open-access-excludes-developing-world-scientists/>
Moshontz, H., Campbell, L., Ebersole, C. R., IJzerman, H., Urry, H. L., Forscher, P. S., ... & Chartier, C. R. (2018). The Psychological Science Accelerator: Advancing psychology through a distributed collaborative network. *Advances in Methods and Practices in Psychological Science*, *1*(4), 501-515.

Paris, B., IJzerman, H., & Forscher, P. S. (2020, December 2). PSA 2020-2021 study capacity report. <https://doi.org/10.31234/osf.io/v9zma>

Open Science Collaboration. (2015). Estimating the reproducibility of psychological science. *Science, 349*(6251).

Oosterhof, N. N., & Todorov, A. (2008). The functional basis of face evaluation. *Proceedings of the National Academy of Sciences*, *105*(32), 11087-11092.

Silan, M., Adetula, A., Brown, D. M. B. Forscher, P., Dutra, N., & IJzerman, H. (2021). Psychological Science Needs the Entire Globe Part 2. *APS Observer, 34*(6).

1. Due to the high similarities between these four languages, only one translator will be needed . [↑](#footnote-ref-0)