Dear Editor,

As representatives of associations supporting citizen science, we are pleased by the recent editorial in *Nature* acknowledging the expanding role of citizen science in professional science (“Rise of the citizen scientist”, Nature 524(7565):265, August 20, 2015; http://www.nature.com/news/rise-of-the-citizen-scientist-1.18192). We are delighted by the recognition that citizen science contributes to academic papers, generates data, informs policy, and facilitates new discoveries - all through advancements otherwise not possible without the contributions and insights of volunteers. However, instead of seeing public engagement with citizen science as an asset - one that channels public concerns into asking targeted questions and obtaining sound scientific evidence - the editorial saw this as cause for concern and conflict of interest.

Traditional science also struggles with issues related to transparency of motives, conflict of interest, and integrity. Citizen science is not special in this regard, but by singling it out, the *Nature* editorial casts undeserved doubt upon the integrity of citizen science data. The fact is, statistical testing and good design are already used to identify and minimize bias in citizen science projects\(^1,2,3\).

What distinguishes citizen science as a valuable form of research is how it expands scales of data and engagement. Our associations facilitate information sharing, mutual learning, and collaboration among 4,000+ practitioners to uphold research integrity and advance best practices. Examples include international conferences, a peer-reviewed journal (Citizen Science: Theory & Practice), and efforts to develop metadata standards that improve data appraisal for specific purposes. These activities only further strengthen the quality of citizen science data.

Indeed, citizen science is making unprecedented contributions to science, research, policy, and society. Scientists from all disciplines can now consider how best to embrace citizen science, given its merits and challenges, and be better supported by standards, tools, literature, and techniques shared by associations.

References:


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