



Edital 2022-4 Prova de Inglês

São 10 (dez) questões obrigatórias.

- 1. Qual é a grande proposta central deste artigo?
- 2.O que os autores denominam no artigo por EDI? E por ecologia?
- 3.Quais são os dois efeitos negativos da tendência na direção de incluir homens brancos americanos ou europeus nos conselhos editoriais de revistas científicas?
- 4.Qual a grande vantagem de um conselho editorial com representatividade nas revistas acadêmicas?
- 5. Quais são as revistas tomadas como exemplos positivos de um conselho com maior diversidade nos diferentes quesitos? Cite os seis quesitos, cada um com a revista indicada como exemplo.
- 6. Quais são as 10 políticas para conselhos editoriais mais balanceado?
- 7. Selecione uma das 10 políticas acima e traduza as duas primeiras frases de sua seção.
- 8.Qual é a pergunta fundamental que temos que responder? Quais os dois cenários nesta resposta que o autor indica? O que ele pensa sobre diversidade nestes dois cenários?
- 9. Qual seria a representação ideal neste contexto dos dois cenários? Mesmo com uma representação ideal, quais as dificuldades de um conselho editorial?
- 10. Por que os benefícios desta diversidade nos conselhos editoriais vão além da academia?

Trends in Ecology & Evolution



Scientific Life

Recommendations for making editorial boards diverse and inclusive

Hayat Mahdjoub (),^{1,*,@} Bea Maas,^{2,@} Martin A. Nuñez,^{3,4,@} and Rassim Khelifa^{5,6,7,@}

Lack of diversity in editorial boards hinders multifaceted perspectives in fields such as ecology, evolution, and conservation. We outline ten key actions for editorial boards to promote equity, diversity, and inclusion, benefiting the journal in attracting a wider readership, enhancing diversity among authors, and overcoming biases in editorial decisions.

Diversity in editorial boards

The importance of promoting justice, equity, diversity, and inclusion (EDI) of minority groups in academia is currently the subject of renewed discussion in scientific fields such as ecology, evolution, and conservation [1,2], hereafter grouped under the term 'ecology.' Although recent studies have pointed out the underrepresentation of women, people of color, and researchers from low- and middle-income countries [Wellcome Trust (https:// wellcome.org/grant-funding/guidance/lowand-middle-income-countries)] among top publishing ecologists [3], we need to improve our understanding of potentially related geographic bias in editorial boards of scientific journals [4]. The lack of representation and low diversity of perspectives in ecology affect not only the quality of the field itself but also its contribution to global challenges such as the climate and biodiversity crisis [2].

Editors decide which manuscripts should undergo peer review, select reviewers, and finally make the decision whether and for what reasons a manuscript is accepted, rejected, or revised [5]. Leading scientific journals have strong editorial filters and high rejection rates that correlate with their high impact factors [6], and they often build on academic networks in highincome countries. Through their decisions, editors influence which perspectives of the scientific community are represented in scientific journals. Accordingly, they bear great responsibility, especially with regard to addressing possible biases. Having a diverse editorial board with fairly balanced representation can add new and valuable perspectives to the journal because some issues and knowledge gaps in a given region are known only by local researchers. Therefore, they can diversify the pool of reviewers and highlight the importance of the study for the region, the field, and the journal.

Recent advances in EDI

There has been some effort to promote EDI through different initiatives, such as promoting gender equality in editorial boards (e.g., *Biological Conservation*) [4], increasing geographic diversity in editorial boards (e.g., *Journal of Applied Ecology*) [2], encouraging multilingual abstracts (e.g., *Functional Ecology*), inviting multilingual publication of full text (e.g., *Austral Ecology*), providing editorial assistance to nonnative English speakers (e.g., *Journal of Biogeography*), creating special issues on EDI (e.g., *American Naturalist*), and providing waivers for article-processing charges.

Ten actions for equitable editorial boards

We provide ten actions (Figure 1) to guide editors in promoting EDI in scientific journals (Figure 2).

Action 1. Increasing diversity among editors Consideration of the intersectionality of geography, gender, ethnicity, and other identities when recruiting members of editorial boards is still lacking. For example, although gender equality in editorial boards has improved during the past decade [4], women from low- and middleincome countries are still very underrepresented [7]. Instead of the traditional elitist appointment of editors, journals should conduct open calls for editor positions from among researchers meeting various backgrounds [8] and should evaluate researchers using the Declaration on Research Assessment, which relies on a more inclusive metric of career assessment and research outputs. A more geographically diverse editorial board could foster ecological research in under-represented areas and could ultimately reduce the practice of helicopter science [9].

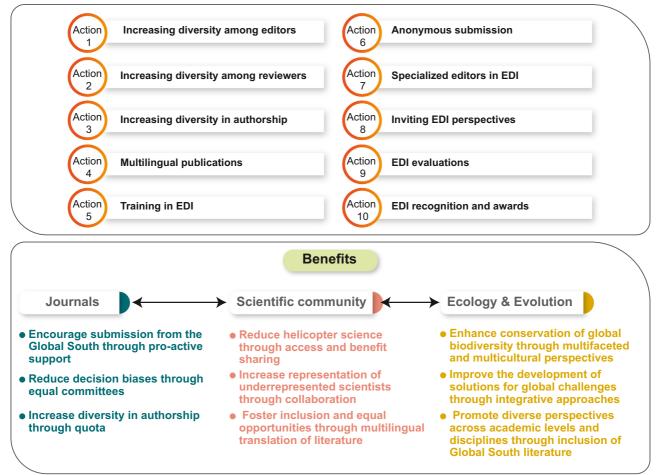
Action 2. Increasing diversity among reviewers

Editors should also promote diversity in the pool of reviewers, which could be facilitated by a diverse editorial board, to obtain a diversity of perspectives on submitted manuscripts. Even if the current pool of potential reviewers who fit the editor's criteria from low- and middle-income countries is smaller than that from high-income countries, reviewing is a 'learning by doing' activity; thus, inviting early career scientists with underrepresented backgrounds as additional reviewers is one way to increase their reviewing skills and ultimately diversify the pool of reviewers. Such an increase in diversity might reduce implicit biases in decision making [10].

Action 3. Increasing diversity in authorship Journals should provide a compilation of common mistakes that lead to the rejection of submissions of under-represented authors (e.g., non-English speakers) and should add to the author guidelines extensive tips and examples on acceptable writing styles. Creating regular special issues or virtual special issues that call for collaborative research between low- and

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Ten actions to promote Justice, Equity, Diversity and Inclusion (EDI) in editorial boards



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Figure 1. Ten actions for promoting justice, diversity, equity, and inclusion in editorial boards and their benefits to the journal, scientific community, and the field of ecology and evolution.

middle-income country and high-income country teams will foster international exchange of knowledge, promote geographically diverse coauthorship, and encourage leadership roles of unrepresented groups [3]. This will also help the goal of the first two actions. Journals could also create categories of papers that accept key research from less privileged areas (e.g., *Ecology* added a new type of article – The Scientific Naturalist – to revive natural history).

Action 4. Multilingual publications

Promoting multilingual translations of abstract and main text will increase the diversity of readers, including scientists, practitioners, and decision makers [11]. Integrating multilingual translations in online journals through machine learning technology should be readily feasible in the near future [12]. It might contribute to capacity building among under-represented researchers, promote diversity of reviewers and editors in the long term, and benefit

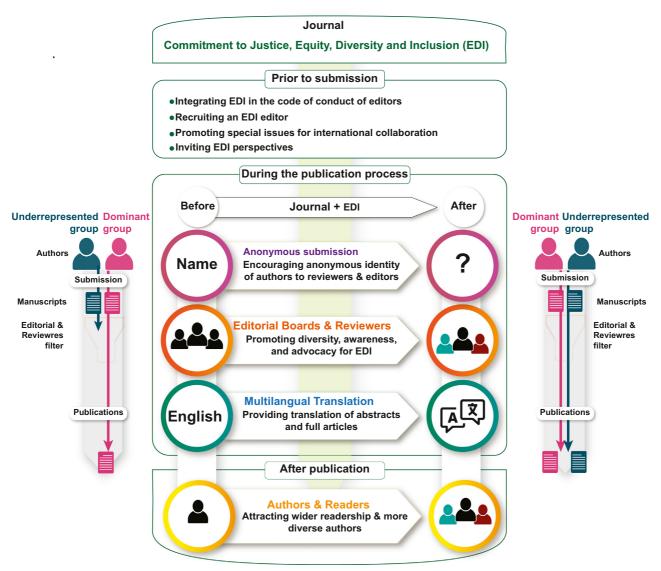
practitioners to apply science published in English. Journals could also foster initiatives that help non–English-speaking researchers to prepare manuscripts in English for submission (e.g., [13]).

Action 5. Training in EDI

Journals should integrate EDI into their code of conduct to reinforce their commitment to EDI. In addition, two types of training programs should be provided: (i) training of the current members to reduce

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Figure 2. Implementation of justice, diversity, equity, and inclusion actions in the editorial board and its impact on the publication process.

implicit bias and raise awareness about standards after welcoming new editorial the importance of diversity and equity in science and (ii) training of future potential members from under-represented groups by organizing lectures, meetings, and workshops and assigning editorial tasks that can improve their ability to viewers but also editors should be warmanage submissions and reviews. This ranted [10]. Hiding the authors' names will ensure the maintenance of high- could potentially reduce implicit gender quality editing and high publishing biases. Although the affiliation could bias boards usually lack expertise in EDI-

members.

Action 6. Anonymous submission

Because everyone has implicit biases, anonymous submission for not only re-

the decision of the editors, it could also help them know if the study is conducted by less privileged researchers who may benefit from some extra mentorship by the editorial board (see Action 3).

Action 7. Specialized editors in EDI

Because discussions on EDI have only recently blossomed, members of editorial

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related issues. Thus, journals should recruit an expert EDI editor who would give recommendations and lead initiatives that promote diversity and inclusion in different aspects of the journal's activities [14]. This editor could also be designated at the publisher level (e.g., Cell Press). The EDI editor could design training programs for current and future editors and advertise in the highlights section of the journal key papers and perspectives on EDI as an initiative for education and raising awareness.

Action 8. Inviting EDI perspectives

Many journals have published many papers on EDI in the past 3 years, raising awareness about EDI among readers and furthering their EDI agenda. Inviting submission of perspectives and research articles on EDI should be continued and generalized across journals. Creating an annual special issue or collection on EDI facilitates regular communication of new perspectives and ideas to promote a diverse and equitable scientific environment (e.g., Trends Voices: On Diversity & Inclusion; https://www.cell.com/trends/ voices/inclusion-and-diversity).

Action 9. EDI evaluations

Changes should always be accompanied by measurable benchmarks, evaluations, and lessons to learn from [2]. Thus, a baseline evaluation of the EDI state of journals is necessary to measure progress and reach goals. Such evaluations on initiatives and accomplishments in diversity (e.g., representation in editorial boards, reviewers, authors, and submissions) should be published in annual reports. This could guide future developments of the journal's EDI targets.

Action 10. EDI recognition and awards

Journals should recognize and value efforts on EDI initiatives by researchers and editors by providing prizes and awards for such contributions. This could motivate the scientific community to be actively committed to promoting EDI and solving existing inequities.

Limitations in achieving diversity

One hard fundamental question to answer is, What is an ideal representation in editorial boards? Imagine two scenarios. First, an editorial board including members with equal representation of males, females, ethnicity, sexual orientation, but all from the USA. Second, members are only men across different countries from low- and middle-income countries and high-income countries. Neither of the two scenarios is truly diverse, and an ideal representation is probably a fair intersection of the two scenarios. However, there are many intersectional categories to fit in an editorial board. In addition, even with an ideal representation in mind, editors will still meet difficulties in finding the expertise that fits certain groups not only when attempting to recruit editors but also when selecting reviewers.

Despite these limitations, efforts to meet EDI goals in editorial boards should continue, and our ten presented actions can help in achieving them. It should shift the current decision landscape from an equality mindset that perpetuates a narrow perspective in science to equitable decision making that promotes a diversity of opinions and perspectives in ecology. The benefits of this goal in terms of diversifying perspectives are invaluable and go beyond academia because they will place the global scientific community in a better position to face planetary challenges through integrative approaches [15].

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Declaration of interests

The authors declare no competing interests.

¹Botany Department, University of British Columbia, Vancouver, 429-2202 Main Mall, Vancouver, V6T 1Z4 BC, Canada ²Department of Botany and Biodiversity Research, Division of Biodiversity Dynamics and Conservation, University of Vienna, Rennweg 14, Vienna 1030, Austria ³Grupo de Ecología de Invasiones, INIBIOMA, Universidad Nacional del Comahue, CONICET, Avenida de los Pioneros 2350, San Carlos de Bariloche, 8400, Río Negro, Argentina ⁴Department of Biology and Biochemistry, University of Houston, Houston, TX 77204, USA

⁵Institute for Resources, Environment and Sustainability, University of British Columbia, Vancouver, 429-2202 Main Mall, Vancouver, V6T 1Z4 BC, Canada

⁶Department of Biological Sciences, Simon Fraser University, Burnaby, BC V5A 1S6, Canada

⁷Department of Biology, Concordia University, Montreal, H4B 1R6 QC, Canada

*Correspondence:

hayatmahdjoub@gmail.com (H. Mahdjoub). [®]Twitter: @HayatMahdjoub (H. Mahdjoub); @Rassim_Kh (R. Khelifa); @MaasBea (B. Maas); @Martin_A_Nunez (M.A. Nuñez).

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References

- Pettorelli, N. *et al.* (2021) How international journals can support ecology from the Global South. *J. Appl. Ecol.* 58, 4–8
- Nuñez, M.A. et al. (2021) Making ecology really global. Trends Ecol. Evol. 36, 766–769
- Maas, B. et al. (2021) Women and Global South strikingly underrepresented among top-publishing ecologists. Conserv. Lett. 14, e12797
- Liévano-Latorre, L.F. et al. (2020) Pervasive gender bias in editorial boards of biodiversity conservation journals. *Biol. Conserv.* 251, 108767
- Palser, E.R. et al. (2022) Gender and geographical disparity in editorial boards of journals in psychology and neuroscience. *Nat. Neurosci.* 25, 272–279
- Paine, C.T. and Fox, C.W. (2018) The effectiveness of journals as arbiters of scientific impact. *Ecol. Evol.* 8, 9566–9585
- Khelifa, R. and Mahdjoub, H. (2022) An intersectionality lens is needed to establish a global view of equity, diversity and inclusion. *Ecol. Lett.* 25, 1049–1054
- Nuñez, M.A. et al. (2019) Assessing the uneven global distribution of readership, submissions and publications in applied ecology: Obvious problems without obvious solutions. J. Appl. Ecol. 56, 4–9
- Haelewaters, D. et al. (2021) Ten simple rules for Global North researchers to stop perpetuating helicopter research in the Global South. PLoS Comput. Biol. 17, e1009277
- Brodie, S. *et al.* (2021) Equity in science: Advocating for a triple-blind review system. *Trends Ecol. Evol.* 36, 957–959
 Amano, T. *et al.* (2021) Tapping into non-English-language
- science for the conservation of global biodiversity. *PLoS Biol.* 19, e3001296
- Steigerwald, E. et al. (2022) Overcoming language barriers in academia: machine translation tools and a vision for a multilingual future. *BioScience biac*062 72 (10), 988–998. https://doi.org/10.1093/biosci/biac1062
- Khelifa, R. *et al.* (2022) A solution for breaking the language barrier. *Trends Ecol. Evol.* 37, 109–112
- Doubeni, C.A. et al. (2022) Advancing diversity, equity, and inclusion in scientific publishing. *Gastroenterology* 162, 59–62.e1
- Maas, B. et al. (2021) Cross-disciplinary approaches for better research: The case of birds and bats. Basic Appl. Ecol. 56, 132–141