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Productivity and impact of the Unisinos' Postgraduate Program in Biology and the consequences of its interruption for Brazilian science

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1 Productivity and impact of the Unisinos' Postgraduate Program in Biology and the 2 consequences of its interruption for Brazilian science

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15 Abstract

16 On 22 July 2022, the Universidade do Vale do Rio dos Sinos (Unisinos), a private institution 17 in southern Brazil, announced the interruption of 12 of its postgraduate programs, including 18 the Postgraduate Program of Biology (PPG Biologia), whose professors founded the journal 19 Neotropical Biology and Conservation. We conducted a bibliometric analysis of papers 20 published by PPG Biologia in the past 20 years to assess its impact on biological research at 21 a national level. The number of publications and citations increased constantly over the years, 22 with publications growing exponentially. Although most collaborations with other research 23 programs occurred inside Brazil, a significant number of studies were co-authored by 24 researchers from other countries from at least four continents. The main research lines 25 focused on biological sciences, ecology, sociology, education, environmental sciences, and 26 genetics. Despite being affected by the decrease in research funding and the reduction of 27 personnel. PPG Biologia kept its high impact score according to the national evaluation, above 28 that of most programs in private universities. With a team of renowned researchers working 29 on different and sometimes unique research lines, the interruption of PPG Biologia will harm 30 the progress of biological research and conservation across the Neotropical realm.

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Keywords: Bibliometric, Biodiversity Loss, Brazil, Environmental Crisis, Political Crisis,
 Publications

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35 Introduction

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37 In Brazil, Biodiversity research occurs in both public and private institutions, but, even in 38 private ones, it relies almost entirely on governmental funding (Mittermeier et al. 2005, 39 McManus and Baeta Neves 2021), which has been on constant turmoil (Magnusson et al. 40 2018, Quintans-Júnior et al. 2020). Biodiversity science suffered severe budget cuts by the 41 Brazilian government in the recent years, driven by politicians associated with the agribusiness 42 sector (Fearnside 2016, Magnusson et al. 2018). Agribusiness controls a large proportion of 43 the Brazilian Congress and pushes legislation to reduce environmental protection (Crouzeilles 44 et al. 2017), actively discrediting science through direct attacks on researchers, science denial 45 and misinformation (Hallal 2021). The situation became even worse during Bolsonaro's 46 administration, who have attacked and denied science himself (de Oliveira Andrade 2019, 47 Hallal 2021).

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With the increasing precariousness of science funding in Brazil, the discontinuation of consolidated high-prestige research programs became an additional threat to research (de Oliveira Andrade 2019, Hallal 2021), as many institutions have groups working on unique and important research lines. This is the case of the Postgraduate Program in Biology (*PPG Biologia*) of the Universidade do Vale do Rio dos Sinos (Unisinos), located in São Leopoldo, southern Brazil.

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56 On 22 July 2022, Unisinos announced the interruption of PPG Biologia and other 11 57 postgraduate programs. This decision, according to the institution, aims to promote the 58 University's financial balance (Ferreira 2022) but is a serious attack on Brazilian research. 59 PPG Biologia was implemented in 2000 with a course for master's degrees and, in 2006, 60 expanded to include doctoral degrees as well. Also in 2006. PPG Biologia launched the journal 61 Neotropical Biology and Conservation, which replaced the journal Acta Biologica 62 Leopoldensia, created in 1979 by professors of the Unisinos' Biology course (Maltchik 2006). 63 The program had 13 fully equipped research laboratories led by highly qualified ecologists, 64 zoologists, geneticists, and microbiologists. Its discontinuation interrupted the research of 65 many professors and graduate students and will likely have a noticeable negative impact on 66 Brazilian biological research.

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68 Measuring the importance of this postgraduate program can help us understand better the 69 consequences of its discontinuation. Thus, we herein conducted a bibliometric analysis of 70 papers published by *PPG Biologia* in the past 20 years to assess its impact on biology 71 research at a national level, evaluating production, collaborations and comparing overall 72 performance with other Brazilian institutions.

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74 Methods

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We ran a bibliographical review on the Dimensions platform (<u>https://app.dimensions.ai/</u>). Dimensions is the "world's largest research information dataset" with over 130 million publications registered, classified, and described on a standardized methodology (Bode et al. 2019). The term "Programa Pós-graduação Biologia Unisinos" (Portuguese for "Unisinos Postgraduate Program in Biology") was searched anywhere in the documents, as it could be mentioned in the authors' affiliations and acknowledgment sections.

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We measured the impact of PPG Biologia by the number of publications per year and the cumulative citations using the R packages 'dimensionsR' (Aria 2022) and 'bibliometriX' (Aria and Cuccurullo 2023). To test whether there has been a sustained temporal increase in production, number of citations, and accumulated number of citations, we applied simple or exponential linear models in R (R Core Team 2022).

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Text processing and analytics were used to convert text data into quantification data, using the R packages 'tidytext' (Robinson and Silge 2023) and 'tm' (Feinerer and Hornik 2023). That procedure was applied to identify the collaboration of researchers from PPG Biologia with researchers from other institutions based on nationality, and the research areas of the publications. We used a circular network and a bipartite network to describe a network of countries with co-authorship and co-authorships in different research areas, respectively, using the R packages 'ggraph' (Pedersen 2022) and 'bipartite' (Dormann et al. 2022). A word

96 cloud (Lang & Chien 2022) was applied using the frequency of keywords from papers97 published between 2015 and 2021 to identify the main topic of publications.

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99 Postgraduate programs (PGs) in Brazil are classified by CAPES (Portuguese acronym for Coordination for the Improvement of Higher Education Personnel), which conducts annual 100 101 evaluations of the PGs' performance based on their impact, such as productivity and 102 personnel formation (Cross et al. 2017). We downloaded data from 2013 to 2020 of all 103 Brazilian PGs in Biological Sciences (389 PGs for the period) from 104 https://dadosabertos.capes.gov.br/dataset/. We used two separate Wilcox tests to compare the performance of Unisinos with public and private institutions. 105

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107 Data and script provided in Krüger (2023).

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109 Results

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The productivity of PPG Biologia (Fig. 1a) increased exponentially (adj. $R^2 = 0.898$, $F_{1,26} = 23.91$, P < 0.001) from less than 10 peer-reviewed publications per year in 1999 to over 300 publications per year in 2022. Citations per year (Fig. 1b) increased on a weak but significant linear trend (adj. $R^2 = 0.233$, $F_{1,26} = 7.90$, P = 0.009), reaching a maximum of 400 citations in one year. The accumulated number of citations (Fig. 1c) increased exponentially from less

- 116 than 50 to over 4,000 in 20 years (adj. $R^2 = 0.901$, $F_{1,26} = 24.69$, P < 0.001).
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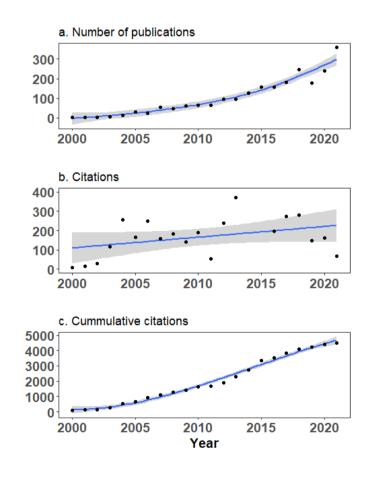


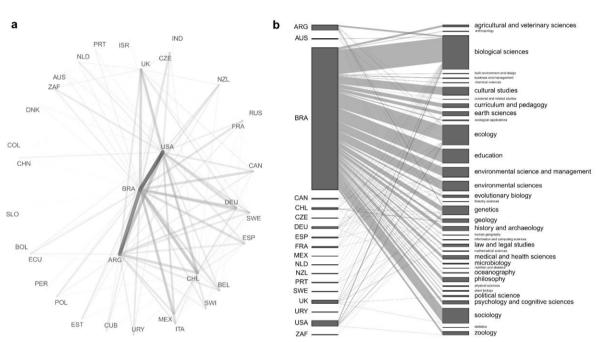
Figure 1. Number of publications mentioning "Programa Pós-graduação Biologia Unisinos" (a), number of citations per year of those same papers (b); and accumulated citations (c) of those papers between 2000 and 2021.

PPG Biologia published papers mostly with authors from other Brazilian institutions but also with authors from other 34 countries. USA and Argentina were the countries with the largest numbers of papers co-authored with Unisinos researchers after Brazil, followed by the United Kingdom, Chile, Spain, and Germany (Fig 2). Most frequent publications predominated in research lines of biological sciences, ecology, sociology, education, environmental sciences, and genetics but were spread through a diverse range of lines (Fig. 2b).

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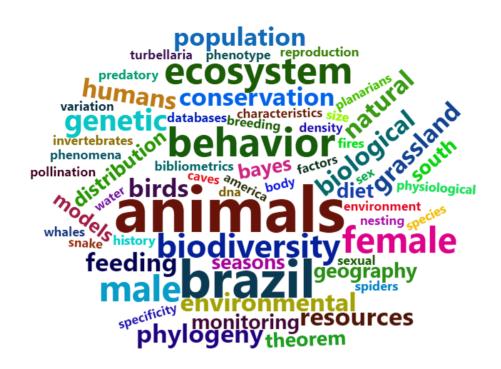
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Figure 2. Network of the nationality of coauthors' institutions for papers published by researchers from the Unisinos Postgraduate Program in Biology between 2015 and 2021, including only countries with more than two publications (a) and a bipartite network connecting the nationality of the authors' institutions with the publications' research lines, including only research lines with at least two publications (b). Line width in both 'a' and 'b' represents frequency; bar height in 'b' indicates the frequency of countries (left) and research lines (right).

Keyword analysis (Fig. 3) revealed a predominance of studies dealing with animals, behavior,
ecosystems, biodiversity, genetics, and populations; other less frequent words showed a wide
range of studied topics. The keyword "Brazil" was also highlighted; "south" and "America" also
appeared but with a lower frequency.



147 Figure 3. Wordcloud highlighting the most frequent keywords mentioned by publications from

- 148 the Unisinos Postgraduate Program in Biology between 2015 and 2021.
- 149
- 150
- 151 Biology PGs in Brazil have a median performance classification (lower 5%, upper 95%) of 4
- 152 (3,7) and a mean performance of 4.5 ± 0.25 (SE). The recent performance of Unisinos' PPG
- Biologia was 5, above the median performance of Brazilian private institutions (W = 258, P = (154)
- 154 0.006) and similar to the public institutions (W = 775.5, P = 0.558) (Fig. 4).
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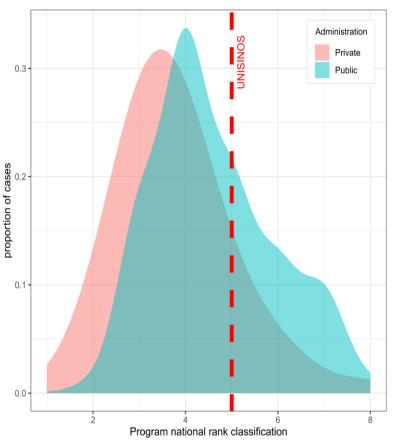


Figure 4. Frequency distribution of national rank classification for Brazil's Postgraduate Programs in Biological Sciences classified as public (blue) and private (red) administration between 2015 and 2020 in relation to the current classification of Unisinos' Postgraduate Program in Biology.

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163 Discussion

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165 During its almost 22 years of existence, PPG Biologia showed an exponential increase in 166 productivity. Even in the face of the severe budget cuts in Brazilian research following the 167 impeachment of president Dilma Rousseff in 2016 and the election of Jair Bolsonaro in 2018 168 (Quintans-Júnior et al. 2020), the productivity kept growing, which suggests that PPG Biologia 169 was a resilient research program. The number of citations showed a smaller increase across 170 the years, but the overall trend may result from a considerable reduction in citations in the last 171 few years. If one considers true that the number of citations determines the quality of research, 172 which is a controversial topic (Caon et al. 2020), this may be the metric that reflects the 173 consequences of both budget cuts from funding agencies and the gradual reduction in the 174 number of researchers in PPG Biologia, which started with the gradual dismissal of professors 175 since 2016 (personal observation). As a result, although the number of publications continued 176 to increase, the research areas covered likely decreased, thus reducing the research fields 177 that would find relevant studies among the most recent productions of PPG Biologia. 178

Although PPG Biologia conducted most studies with other Brazilian researchers,collaborations with researchers in other countries from at least four continents and covering a

181 diversity of research lines also stood out. The reasons for international collaborations in 182 research are numerous but often motivated by the researcher's reputation, access to research 183 funds, and an increase in quality and multidisciplinarity due to the expertise of collaborators 184 (Dusdal and Powell 2021). Many researchers of PPG Biologia are renowned experts in their 185 fields, and the research groups of PPG Biologia included several research lines addressing 186 globally relevant topics related to genetics and evolution (Silva et al. 2021, Allgaver et al. 187 2022), taxonomy of highly diverse Neotropical groups (Rodrigues et al. 2020, 2021, Hellmann 188 et al. 2022, Margues et al. 2022, Reis and Lehmann A. 2022), as well as the dynamics of 189 ecosystems, communities, and populations (Boll and Leal-Zanchet 2018, Fontoura et al. 2019, MOSER et al. 2022), including the study of human impact through pollution (Dalzochio et al. 190 2018, Finger et al. 2021, Bauer et al. 2022), agriculture (Meneghel et al. 2022), habitat 191 192 fragmentation (Baldissera et al. 2020, Dalmolin et al. 2023), and climate change (Fontana et 193 al. 2018, Krüger et al. 2018, Epele et al. 2022). One can notice this diversity in research lines 194 through the most frequent keywords in recent publications.

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196 CAPES score to evaluate Brazilian Postgraduate Programs ranges between 1 and 7, with 6 197 and 7 indicating excellence (and achieved by very few programs) and 1 and 2 meaning that 198 the program is discredited. Thus, the most realistic score for any active postgraduate program 199 varies from 3 to 5. Although this evaluation system is often questioned and has its flaws 200 (Barata 2019), it is impressive that PPG Biologia was able to keep the highest realistic score 201 in the face of the ever-growing attacks that it received through the reduction of research funds 202 and the gradual decrease in the number of researchers. This is even more impressive 203 considering that PPG Biologia was part of a private university, Unisinos, and the overall scores 204 of programs in private universities are lower than those of public universities. This difference 205 in score between public and private institutions is likely explained by the fact that private 206 universities invest very little in research and rely almost exclusively on public funding 207 (McManus and Baeta Neves 2021).

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209 Unisinos is a Jesuit university and is said to be a non-profit entity interested in academic 210 excellence and the promotion and development of education 211 (https://www.unisinos.br/institucional). However, not only did it discontinue 12 postgraduate 212 programs and dismissed about 40 professors at once, but started a partnership with a large 213 firearm company in 2021 (Rede Brasil Atual 2022). Such attitudes do not seem to agree with 214 the principles that Unisinos supposedly holds.

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216 Conclusion

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Despite the constant attacks through budget cuts and reduction of personnel, PPG Biologia was able to keep its high-quality score over the years. With a research team including renowned researchers and encompassing a diversity of relevant research lines, it showed a promising future as a promoter of knowledge and conservation of Neotropical ecosystems. Unfortunately, this future was denied by the sudden decision of an allegedly non-profit institution to favor profit over research, education, and nature conservation.

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