***Data in Brief* article template** *Version 11 (January 2022)*

Before you complete this template, a few important points to note:

· There are two ways to submit a data article to *Data in Brief*:

o **Directly to the journal**: If you choose this route, you can skip the companion article instructions on the following page and move directly to the data article template on page 3.

o **Alongside a research article that you are submitting to a separate Elsevier journal**: Please read the companion article instructions on page 2 before you complete this template.

· Whichever submission option you choose, it’s important to double check that your manuscript **meets the data article criteria** on our webpage: [What Data are Suitable for Data in Brief](https://www.journals.elsevier.com/data-in-brief/policies-and-guidelines/what-data-are-suitable-for-data-in-brief).

· The format of a data article is different from that of a traditional research article. To help you write yours, we have created a template on page 3. **We will only consider data articles submitted using this template**.

· It is mandatory to **publicly share the research data in a repository** referred to in your *Data in Brief* article (you will find information on our data sharing criteria in the template).

· Please consult the *Data in Brief* [Guide for Authors](https://www.elsevier.com/journals/data-in-brief/2352-3409/guide-for-authors) when preparing your manuscript; it highlights mandatory requirements and is packed with useful advice. We have also developed a [step-by-step video guide](https://www.journals.elsevier.com/data-in-brief/about-data-in-brief/video-how-to-submit-your-research-data-article-to-data-in-brief) to help you complete this template accurately and increase your chances of acceptance.

**Still have questions?**

Ø  [Visit our FAQ page](https://www.journals.elsevier.com/data-in-brief/about-data-in-brief/data-in-brief-faq)

Ø Email our Scientific Editors at dib-me@elsevier.com

**Companion article instructions**

Data articles support original research. They improve research integrity and reproducibility by making the data available and discoverable and reduce unwanted duplication of research. A companion data article can be submitted to the same journal as your original research article. Alternatively, a companion article can be submitted directly to *Data in Brief* following acceptance of your original research.

**I want to submit my companion data article at the same time as my original research article:** You can find out whether your chosen Elsevier journal offers submission of companion data articles by viewing its Guide for Authors. In addition, any revision letter/email you receive from a participating journal will contain an offer to submit a data article to *Data in Brief.*

Submission is completed in two steps:

1. Zip your completed data article, and all other files relevant to your *Data in Brief* submission into a single .zip file.

2. Upload this .zip file as a “Data in Brief”-labelled item to the editorial system of the journal you are submitting your original research to.

The .zip file is automatically transferred to *Data in Brief* when your research article is accepted for publication in the other journal. And if your *Data in Brief* article is also published, the two will link to each other on ScienceDirect.

**I want to submit my companion data article following acceptance of my original research article:** In this case, you can submit directly to *Data in Brief’s* submission system. Please note that the article template asks for the details of your accepted manuscript so that we can link your original research article with your companion data article.

**Please use the article template to write your data article:** Regardless of when you choose to submit your companion article, use the article template on page 3.

· Step 1 – Write

Fill in the template provided on page 3. The template shows you exactly what reviewers are looking for in your data article.

· Step 2 – Share

Make your data publicly accessible by posting it to one of the repositories we support. Find the list of data repositories at [FAIRsharing : Elsevier's Data Policy](https://fairsharing.org/bsg-p000100/)

· Step 3 – Submit

Submit your article with the shared data directly to Data in Brief or together with your original research article.

**Data article template**

Please fill in the template below. As you complete each section, it is important to carefully read the associated instructions, which you will find in italicised text.

**Please delete this line and everything above it before submitting your article. In addition, we ask you to delete the instructions, including those featured in the Article Information and Specifications table.**

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

**Article information**

**Article title**

*The article title must include the word ‘data’ or ‘dataset’. Please avoid acronyms and abbreviations where possible. Where your data article supports an original research article, the title should differ from the title used in your research paper.*

**Authors**

*List all authors. Please mark the corresponding author with (\*).*

**Affiliations**

*Please include the full address of each author institution.*

**Corresponding author’s email address and Twitter handle**

*Institutional email address preferred.*

*If you have a Twitter handle, please add it here ‘twitter: @....’*

**Keywords**

*Include 4-8 keywords (or phrases) to help others discover your article online. Avoid repeating words used in your title.*

**Abstract**

*The abstract should describe the data collection process, the analysis performed, the data, and their reuse potential. It should not provide conclusions or interpretive insights. Minimum length 100 words / maximum length 500 words.*

*Tip: Do not use words such as ‘study’, ‘results’ and ‘conclusions’ – a data article should only describe your data.*

**Specifications table**

*Every section of this table is mandatory. Please enter information in the right-hand column and remove all the instructions in blue, italicised text.*

|  |  |
| --- | --- |
| **Subject** | *Please select a Subject Area from the list available at:* [DIB categories.](https://www.elsevier.com/__data/assets/excel_doc/0012/736977/DIB-categories.xlsx) |
| **Specific subject area** | *Briefly describe the specific subject area. Max 150 characters.* |
| **Type of data** | *We want to understand the type(s) of data this article describes. Delete any description from the list that does not apply. If your data type is not featured, please manually add it.*  Table  Image  Chart  Graph  Figure |
| **How the data were acquired** | *State how the data were acquired: e.g., via microscope, SEM, NMR, mass spectrometry, etc. If it was via a survey, you must submit a copy of that survey as supplementary material. If the survey is not written in English, please provide an English-language translation.*  *Please also provide information on the instruments used to acquire your data (e.g., hardware, software, program), including any relevant make and model details. Also, provide a brief description of the methods or protocols used for collecting data.* |
| **Data format** | *List your data format(s). Delete any descriptions from the list that do not apply. If your data format is not featured, please manually add it.*  Raw  Analyzed  Filtered |
| **Description of data collection** | *Provide a brief description of the conditions that were used for data collection. Describe the factors/samples under study that were used to generate data points and inclusion/exclusion criteria (if necessary). You may also describe how the data were normalised. Max 400 characters.* |
| **Data source location** | *Provide the information requested below. If any of the bullet points do not apply, please delete them:*  *· Institution:*  *· City/Town/Region:*  *· Country:*  *· Latitude and longitude (and GPS coordinates, if possible) for collected samples/data:*  *If you are describing* ***secondary data,*** *this is where you list the raw data sources used.* |
| **Data accessibility** | ***All data referred to in your data article must be made publicly available prior to publication.***  · *All* ***raw data*** *linked to charts, graphs or figures in your manuscript, should be shared via a data repository.*  · *If you are describing* ***secondary data*** *(data that has already been collected through primary sources and made readily available for researchers to use for their own research)****,*** *you are required to provide a list of the primary data sources used and make the full secondary dataset publicly available via a data repository.*  *Please deposit your data in a data repository. View our supported data repositories on* [*FAIRsharing.org*](https://fairsharing.org/bsg-p000100/)*. If there is no specialized repository for your data, please use a generalised repository such as* [*Mendeley Data*](https://data.mendeley.com/)*.*  *Please indicate here where your data are hosted.*  Repository name:  Data identification number:  Direct URL to data:*e.g.,* [*https://www.data.edu.com*](https://www.data.edu.com/) *– the URL should be working at the time of submission.*  *For data that require access controls for ethical reasons (e.g., patient data), please describe how readers can request access. You must also provide a link to any Data Use Agreement (DUA) with the proprietor of the data or upload a copy as a supplementary file.*  Instructions for accessing these data:  ***Important:*** *if your data has access controls, you must provide a mechanism that allows our Editors and reviewers to access the data without compromising their anonymity. Please include these instructions with your submission. Contact the Scientific Editors (DIB-ME@elsevier.com) if you have any questions.* |
| **Related research article** | *If your data article supports an original research article, please cite the associated research article here. You should only list one article.*  ***For a published article:***  *J. van der Geer, J.A.J. Hanraads, R.A. Lupton, The art of writing a scientific article, J. Sci. Commun. 163 (2010) 51–59.* [*https://doi.org/10.1016/j.Sc.2010.00372*](https://doi.org/10.1016/j.Sc.2010.00372)  ***For an article which has been accepted and is in press:***  *J. van der Geer, J.A.J. Hanraads, R.A. Lupton, The art of writing a scientific article, J. Sci. Commun. In Press.*  *If your data article is* ***not related to a research article****, please delete this entire ‘Related research article’ row.* |

**Value of the data**

*Provide up to 6 bullet points explaining why these data are of value to the scientific community. At a minimum you must answer the first 3 bullet point questions below (then those questions should be deleted). Please keep your points brief – ideally, each one should be no longer than 400 characters. Avoid any conclusions or inferences.*

*· Why are these data useful?*

*· Who can benefit from these data?*

*· How can these data be used/reused for further insights and/or development of experiments?*

**Data description**

*Individually describe the data files that appear in this article (not the article it supports) e.g., figure 1, figure 2, table 1, dataset, raw data, and data shared in the repository, etc. Please ensure you refer to every file separately and provide a clear description for each one (do not just list them). Legends should be included for tables, figures and graphs. No insights, interpretations, background, or conclusions should appear in this section.*

**Experimental design, materials and methods**

*Provide a complete description of the experimental design and methods used to acquire these data. Include any programs or code files used for data filtering or analysis. It is important that this section is as comprehensive as possible. If this is a companion article, this section should contain more detail than the corresponding section of your accompanying research article, and it should be written in original text (i.e., do not copy it). There is no character limit; however, no insights, interpretations, or background should be included.*

*Tip: Do not describe your data (figures, tables, etc.) here – you should have already done that in the Data description section above.*

**Ethics statements**

*Data in Brief’s* [*Guide for Authors*](https://www.elsevier.com/journals/data-in-brief/2352-3409/guide-for-authors) *contains detailed information on the ethical guidelines that all authors must comply with. In addition, we ask you to complete the relevant statement(s) below. Please delete those which are not relevant for your data.*

***If your work involved human subjects,*** *please include a statement here confirming that the relevant informed consent was obtained from those subjects, if the research was carried out in accordance with the Declaration of Helsinki and include the Ethical committee and the protocol number.*

***If your work involved animal experiments,*** *please**include a statement here confirming that those experiments complied with the* [*ARRIVE guidelines*](https://www.nc3rs.org.uk/arrive-guidelines) *and were carried out in accordance with the U.K. Animals (Scientific Procedures) Act, 1986 and associated guidelines;* [*EU Directive 2010/63/EU for animal experiments*](http://ec.europa.eu/environment/chemicals/lab_animals/legislation_en.htm)*; or the National Institutes of Health guide for the care and use of laboratory animals (NIH Publications No. 8023, revised 1978). Note, the sex of the animals must be indicated, and, where appropriate, the influence (or association) of sex on the results of the study.*

***If your work involved data collected from social media platforms****, please include a statement here confirming that a) informed consent was obtained from participants or that participant data has been fully anonymized, and b) the platform(s)’ data redistribution policies were complied with.*

**CRediT author statement**

*CRediT is an initiative that enables authors to share an accurate and detailed description of their diverse contributions to a published work.*

*Example of a CRediT author statement:*

***Zhang San:*** *Conceptualization, Methodology, Software* ***Priya Singh****: Data curation, Writing- Original draft preparation.* ***Wang Wu****: Visualization, Investigation.* ***Jan Jansen:*** *Supervision.* ***Ajay Kumar****: Software, Validation.:* ***Sun Qi:*** *Writing- Reviewing and Editing.*

*Please add a CRediT author statement for your data article here, using the* [*categories listed on this web*](https://www.elsevier.com/authors/journal-authors/policies-and-ethics/credit-author-statement)*page.*

**Acknowledgments**

*All contributors who do not meet the criteria for authorship should be listed in an acknowledgments section.*

*In addition, please list any funding sources in this section. List funding sources in this standard way to facilitate compliance to funder's requirements:*

*Funding: This work was supported by the National Institutes of Health [grant numbers xxxx, yyyy]; the Bill & Melinda Gates Foundation, Seattle, WA [grant number zzzz]; and the United States Institutes of Peace [grant number aaaa].*

*It is not necessary to include detailed descriptions of the program or type of grants and awards. When funding is from a block grant or other resources available to a university, college, or other research institution, submit the name of the institute or organization that provided the funding.*

*If no funding has been provided for the research, please include the following sentence:*

*This research did not receive any specific grant from funding agencies in the public, commercial, or not-for-profit sectors.*

**Declaration of interests**

*Please* ***tick*** *the appropriate statement below and declare any financial interests/personal relationships which may affect your work in the box below.*

☐ The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

☐ The authors declare the following financial interests/personal relationships which may be considered as potential competing interests:

*Please declare any financial interests/personal relationships which may be considered as potential competing interests here.*

**References**

*References are limited to a maximum of 20 and excessive self-citation is not allowed. Please cite any article you have referred to while collecting or analysing data and preparing your manuscript.* ***If your data article supports an original research article which is published or in press, please cite the associated article here; ideally, it should be the first citation****.* ***Please also make sure to cite the corresponding dataset.***

*Please review the References section in the* [*Guide for Authors*](https://www.elsevier.com/journals/data-in-brief/2352-3409/guide-for-authors#txt68000) *for a comprehensive guide to Data in Brief reference style and then list your references below, numbering each one as you go.*

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

***Reminder: Before you submit, please delete all the instructional text in italicised text, wherever it appears – including here. Thank you!***

***And finally, we welcome your feedback on how we can improve this template.***[*Click here*](https://forms.office.com/Pages/ResponsePage.aspx?id=P-50kiWUCUGif5-xXBBnXTeXkbO343VFrbpYVBvxdZtUM05UVjIwM0U4WlRKUldCOTNMRUQwOVRHTy4u) ***to provide anonymous feedback via a very short survey.***