

Research Future L^AT_EX Template

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Abstract

The abstract should be a single paragraph written in plain language that a general reader can understand. Do not include citations, figures, tables, or undefined abbreviations in the abstract. Any abbreviations that appear in the title should be defined in the abstract. The length should be 250 words and not exceed 300 words, to include:

- An opening sentence that states the question/problem addressed by the research AND
- Enough background content to give context to the study AND
- A brief statement of primary results AND
- A short concluding sentence.

1 Introduction

Your manuscript should contain all of the numbered sections specified in this template: Introduction, Results, Discussion, Materials and Methods.

The manuscript should start with a brief introduction that lays out the problem addressed by the research and describes the paper's importance. The scientific question being investigated should be described in detail. The introduction should provide sufficient background information to make the article understandable to readers in other disciplines and provide enough context to ensure that the implications of the experimental findings are clear.

Citations

Citations of references in the text should be identified using numbers in square brackets e.g., “as discussed by Cui [1]” or “as discussed elsewhere [1–5].” All references should be cited within the text and uncited references will be removed.

As an example, this template includes a “sample.bib” file containing the references in BibTeX.

Equations

Equations should be provided in a text format, rather than as an image. Equations should be numbered consecutively, in round brackets, on the right-hand side of the page by using the “`\begin{equation}`” command. They should be referred to as Equation 1, etc. in the main text.

For example, see Equation 1 and Equation 2 below.

$$a^2 + b^2 = c^2 \tag{1}$$

$$\begin{aligned} A &= \frac{\pi r^2}{2} \\ &= \frac{1}{2} \pi r^2 \end{aligned} \tag{2}$$

Figures

Figures should be called out within the text and numbered in the order of their citation in the text. Every figure must have a descriptive title beginning with “Figure [Number] ...” All figure titles should be either a phrase or a sentence; do not mix the two styles. See Figure 1 for example.



Figure 1: This is an example figure.

Figures should be displayed on a white background. When preparing figures, consider that they can occupy either a single column (half page width) or two columns (full page width), and should be sized accordingly.

If a figure consists of multiple panels, they should be ordered logically and labelled with roman letters (i.e., A, B, C, etc.). All labels should be explained in the legend. See Figure 2 for example.

Upon acceptance, authors will be asked to provide the figures as separate electronic files. At that stage, figures should be supplied as Adobe Portable Document Format (PDF), PostScript (PS),

46 or Encapsulated PostScript (EPS) for illustrations or diagrams; Tagged Image File Format (TIFF),
 47 JPEG, PNG, PhotoShop (PSD), EPS, or PDF for photography or microscopy. Bitmap formats
 48 (Photoshop, TIFF, JPEG, PNG) images should be of at least 300 dpi resolution, unless due to the
 49 limited resolution of a scientific instrument. If a bitmap image has labels, the image and labels
 should be embedded in separate layers.

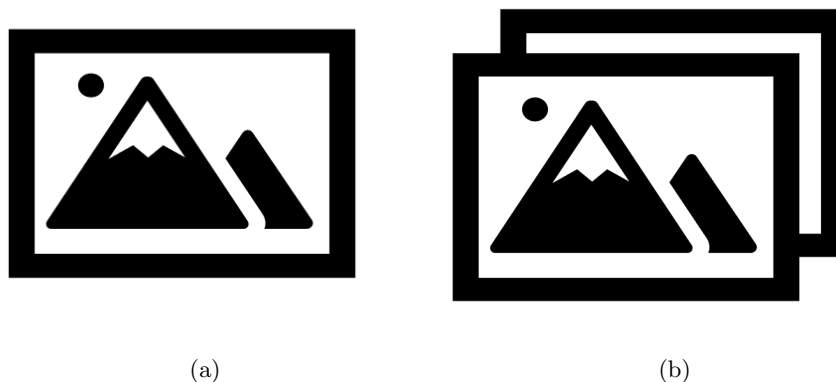


Figure 2: This is an example of a figure consisting of multiple panels. (??) This is the first panel.
 (??) This is the second panel.

50

51 Tables

52 Tables should supplement, not duplicate, the text. They should be called out consecutively within
 53 the text and numbered in the order of their citation in the text.

54 Every table must have a descriptive title beginning with “Table [Number] . . .” as noted in Table
 55 1. If numerical measurements are given, the units should be included in the column heading. Every
 56 vertical column should have a heading, followed by a unit of measure (if any) in parentheses. Units
 57 should not change within a column. Vertical rules should not be used.

58 Centered headings of the body of the table can be used to break the entries into groups. Do
 59 not use footnotes in column heads; include any such details in sentence form in the table legend.
 60 Footnotes should contain information relevant to specific cells of the table; use lowercase letters in
 61 alphabetical order, as needed: a, b, c, etc.

Table 1: This is an example table.

Column 1	Column 2	Column 3
Cell 1	Cell 2	Cell 3
Cell 4	Cell 5	Cell 6

62 **2 Materials and Methods**

63 The materials and methods section should provide sufficient information to allow replication of the
64 results. This section should be broken up by subheadings. Under exceptional circumstances, when a
65 particularly lengthy description is required, a portion of the materials and methods can be included
66 in the Supplementary Materials.

67 **2.1 Experimental Design**

68 Begin with a section titled Experimental Design describing the objectives and design of the study
69 as well as prespecified components.

70 **2.2 Statistical Analysis**

71 If applicable, include a section titled Statistical Analysis that fully describes the statistical methods
72 with enough detail to enable a knowledgeable reader with access to the original data to verify the
73 results. The values for N, P, and the specific statistical test performed for each experiment should
74 be included in the appropriate figure legend or main text.

75 **2.3 Animal and Human Studies**

76 For investigations on humans, a statement must be including indicating that informed consent was
77 obtained after the nature and possible consequences of the study was explained.

78 For authors using experimental animals, a statement must be included indicating that the ani-
79 mals' care was in accordance with institutional guidelines.

80 **3 Results**

81 The results should describe the experiments performed and the findings observed. The results section
82 should be divided into subsections to delineate different experimental themes.

- 83 • All data should be presented in the Results. No data should be presented for the first time in
84 the Discussion. Data (such as from Western blots) should be appropriately quantified.
- 85 • Subheadings must be either all complete sentences or all phrases. They should be brief, ideally
86 less than 10 words. Subheadings should not end in a period. Your paper may have as many
87 subheadings as are necessary.
- 88 • Figures and tables must be called out in numerical order. For example, the first mention of
89 any panel of Fig. 3 cannot precede the first mention of all panels of Fig. 2. The supplementary
90 figures (for example, fig. S1) and tables (table S1) must also be called out in numerical order.

91 **4 Discussion**

92 Include a Discussion that summarizes (but does not merely repeat) your conclusions and elaborates
93 on their implications. There should be a paragraph outlining the limitations of your results and
94 interpretation, as well as a discussion of the steps that need to be taken for the findings to be
95 applied. Please avoid claims of priority.

96 **Acknowledgments**

97 Anyone who made a contribution to the research or manuscript, but who is not a listed author,
98 should be acknowledged (with their permission). Types of acknowledgments include:

99 **General**

100 Thank others for any contributions. Any usage of AI/AI-assisted technologies as components of the
101 research study or as aids in the writing or presentation of the manuscript should be declared in this
102 section. Detailed explanations should be provided in the Methods section.

103 Example:

104 “During the preparation of this work, the author(s) used [Tool/Service] in order to [Reason].
105 After using this tool/service, the author(s) reviewed and edited the content as needed and take(s)
106 full responsibility for the content of the publication.”

107 **Author Contributions**

108 Describe contributions of each author to the paper, using the first initial and full last name.

109 Examples:

110 “S. Zhang conceived the idea and designed the experiments.”

111 “E. F. Mustermann and J. F. Smith conducted the experiments.”

112 “All authors contributed equally to the writing of the manuscript.”

113 **Funding**

114 Name financially supporting bodies (written out in full), followed by the funding awardee and asso-
115 ciated grant numbers (if applicable) in square brackets.

116 Example:

117 “This work was supported by the Engineering and Physical Sciences Research Council [grant
118 numbers xxxx, yyyy]; the National Science Foundation [grant number zzzz]; and a Leverhulme
119 Trust Research Project Grant.”

120 If the research did not receive specific funding, but was performed as part of the employment
121 of the authors, please name this employer. If the funder was involved in the manuscript writing,
122 editing, approval, or decision to publish, please declare this.

123 **Competing interests**

124 Conflicts of interest (COIs, also known as “competing interests”) occur when issues outside research
125 could be reasonably perceived to affect the neutrality or objectivity of the work or its assessment.

126 Authors must declare all potential interests – whether or not they actually had an influence – in a
127 ‘Conflicts of Interest’ section, which should explain why the interest may be a conflict. Authors must
128 declare current or recent funding (including for Article Processing Charges) and other payments,
129 goods or services that might influence the work. All funding, whether a conflict or not, must be
130 declared in a “Funding Statement.” The involvement of anyone other than the authors who 1) has
131 an interest in the outcome of the work; 2) is affiliated to an organization with such an interest; or 3)
132 was employed or paid by a funder, in the commissioning, conception, planning, design, conduct, or
133 analysis of the work, the preparation or editing of the manuscript, or the decision to publish must
134 be declared.

135 If there are none, the authors should state “The author(s) declare(s) that there is no conflict of
136 interest regarding the publication of this article.” Submitting authors are responsible for coauthors
137 declaring their interests. Declared conflicts of interest will be considered by the editor and reviewers
138 and included in the published article.

139 **Data Availability**

140 A data availability statement is compulsory for all research articles. This statement describes
141 whether and how others can access the data supporting the findings of the paper, including 1)
142 what the nature of the data is, 2) where the data can be accessed, and 3) any restrictions on data
143 access and why.

144 If data are in an archive, include the accession number or a placeholder for it. Also include any
145 materials that must be obtained through a Material Transfer Agreements (MTA).

146 **Supplementary Materials**

147 Describe any supplementary materials submitted with the manuscript (e.g., audio files, video clips
148 or datasets).

149 Please group supplementary materials in the following order: materials and methods, figures,
150 tables, and other files (such as movies, data, interactive images, or database files).

151 Example: Fig. S1. Title of the first supplementary figure.

152 Fig. S2. Title of the second supplementary figure.

153 Table S1. Title of the first supplementary table.

154 Data file S1. Title of the first supplementary data file.

155 Movie S1. Title of the first supplementary movie.

156 Be sure to submit all supplementary materials with the manuscript and remember to reference
157 the supplementary materials at appropriate points within the manuscript. We recommend citing

158 specific items, rather than referring to the supplementary materials in general, for example: “See
159 Figures S1-S10 in the Supplementary Material for comprehensive image analysis.”

160 A link to access the supplementary materials will be provided in the published article.

161 Supplementary Materials may include additional author notes—for example, a list of group
162 authors.

163 Guidelines for References

164 There is only one reference list for all sources cited in the main text, figure and table legends, and
165 Supplementary Materials. Do not include a second reference list in the Supplementary Materials
166 section. Include references cited only in the Supplementary Materials at the end of the reference
167 section of the main text; reference numbering should continue as if the Supplementary Materials are
168 a continuation of the main text. References cited only in the Supplementary Materials section are
169 not counted toward length guidelines.

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178 DOI.

179 If available, include a DOI for each reference. For online resources that do not have a DOI,
180 include full URL, title of the page, source of the information, and date of access.

181 References

- 182 1. Cui T. Research: The First Science Partner Journal. Research 2018;2018:1.
- 183 2. Ninomiya S, Baret F, and Cheng ZM. Plant Phenomics: Emerging Transdisciplinary Science.
184 Plant Phenomics 2019;2019:1–3.
- 185 3. Li X, Zhang G, and Tang Y. BME Frontiers: A Platform for Engineering the Future of Biomedicine.
186 BME Frontiers 2020;2020:1.
- 187 4. Wang W and Chu D. Advanced Devices & Instrumentation: Integrated for Functionality to
188 Change the World. Advanced Devices & Instrumentation 2020;2020:1–2.
- 189 5. Yang X, Qi LS, Jaramillo A, and Cheng ZM. BioDesign Research to Advance the Principles and
190 Applications of Biosystems Design. BioDesign Research 2019;2019:1–4.