Frontiers in Physics



Article Title

First Author 1,*, Co-Author 2 and Co-Author 2

 1 Laboratory X, Institute X, Department X, Organization X, City X , State XX (only USA, Canada and Australia), Country X

²Laboratory X, Institute X, Department X, Organization X, City X, State XX (only USA, Canada and Australia), Country X

Correspondence*:

corresponding Author

Laboratory X, Institute X, Department X, Organization X, Street X, City X, State XX (only USA, Canada and Australia), Zip Code, X Country X, email@uni.edu

2 ABSTRACT

- 3 Refer to
- 4 http://www.frontiersin.org/Physics/authorquidelines
- 5 or **Table1** for abstract requirement and length according to article type.

1 INTRODUCTION

- 11 Text.

2 MATERIAL & METHODS

- 17 text text text
- Please note that very large tables (covering several pages) cannot be included in the final PDF for reasons
- 19 of space. These tables will be published as supplementary material on the online article abstract page at
- 20 the time of acceptance. The author will notified during the typesetting of the final article if this is the case.
- 21 A link in the final PDF will direct to the online material.

Table 1. Maximum size of the Manuscript

	Abstract max. legth (incl. spaces)	Figures or tables	Manuscript max. length	Final PDF length
Clinical Case Study				
Clinical Trial				
Hypothesis and Theory				
Methods	2000 characters	15	12000 words	12 pages
Original Research				
Review				
Technology Report				
Focused Review	2000 characters	5	5000 words	5 pages
CPC	1250 characters	6	2500 words	4 pages
Perspective	1250 characters	2	3000 words	3 pages
Mini Review				
Classification	1250 characters	10	2000 words	12 pages
Editorial	none	none	1000 words	1 page
Book review				
Frontiers Commentary	none	1	1000 words	1 page
General Commentary				
Field Grand Challenge				
Opinion	none	1	2000 words	2 pages
Specialty Grand Challenge				- •

2.1 ORIGINAL RESEARCH ARTICLES, CLINICAL TRIAL ARTICLES, AND TECHNOLOGY REPORTS

- 22 For Original Research Articles, Clinical Trial Articles, and Technology Reports the section headings
- 23 should be those appropriate for your field and the research itself. It is recommended to organize your
- 24 manuscript in the following sections or their equivalents for your field:
- Introduction: Succinct, with no subheadings.

28

29

- Materials and Methods: This section may be divided by subheadings. This section should contain sufficient detail so that when read in conjunction with cited references, all procedures can be repeated.
 - Results: This section may be divided by subheadings. Footnotes should not be used and have to be transferred into the main text.
- Discussion: This section may be divided by subheadings. Discussions should cover the key findings of the study: discuss any prior art related to the subject so to place the novelty of the discovery in the appropriate context; discuss the potential short-comings and limitations on their interpretations; discuss their integration into the current understanding of the problem and how this advances the current views; speculate on the future direction of the research and freely postulate theories that could be tested in the future.
- Please note that the Material and Methods section can be placed in any of the following ways: before Results, before Discussion or after Discussion.

2.2 CLINICAL CASE STUDIES

- 38 For Clinical Case Studies the following sections are mandatory:
- Introduction: Include symptoms at presentation, physical exams and lab results.

Table 2. Resolution Requirements for the figures

Image Type	Description	Format	Color Mode	Resolution
Line Art	An image composed of lines and text, which does not contain tonal or shaded areas.	TIFF, JPEG	RGB, Bitmap	900 - 1200 dpi
Halftone Combination	A continuous tone photograph, which contains no text. Image contains halftone + text or line art elements.	TIFF, EPS, JPEG TIFF, JPEG	RGB, Grayscale RGB, Grayscale	300 dpi 600 - 900 dpi

- Background: This section may be divided by subheadings. Include history and review of similar cases.
- Results: This section may be divided by subheadings. Include diagnosis and treatment.
- Concluding Remarks

3 RESULTS

- 43 Frontiers requires figures to be submitted individually, in the same order as they are referred to in the
- 44 manuscript. Figures will then be automatically embedded at the bottom of the submitted manuscript.
- 45 Kindly ensure that each table and figure is mentioned in the text and in numerical order. Permission must
- 46 be obtained for use of copyrighted material from other sources (including the web). Please note that it
- 47 is compulsory to follow figure instructions. Figures which are not according to the guidelines will cause
- 48 substantial delay during the production process.

$$\sum x + y = Z \tag{1}$$

- 49 **Table2** shows the resolution requirements for the figures. The figures must be legible:
- 50 1. The smallest visible text is no less than 8 points in height, when viewed at actual size.
- 51 2. Solid lines are not broken up.
- 52 3. Image areas are not pixelated or stair stepped.
- 53 4. Text is legible and of high quality.
- 5. Any lines in the graphic are no smaller than 2 points width.
- 55 6. The actual size of the figure must be of at least 8.5 cm.

4 DISCUSSION

- 57 Text Text Text Text. Additional Requirements:

4.1 CORRECTIONS

- 58 Minor corrections to published articles can be communicated to the Frontiers Production Office at produ-
- 59 ction.office@frontiersin.org. If you need to communicate important changes to an article please submit a
- 60 General Commentary. Submit the article with the title Erratum: Original Title of Article.

4.2 COMMENTARIES ON ARTICLES

At the beginning of your manuscript provide the citation of the article commented on.

4.3 FOCUSED REVIEWS

- 62 For Tier 2 invited Focused Reviews the sections Introduction, Material and Methods, Results, and Discus-
- 63 sion are recommended. In addition the authors must submit a short biography of the corresponding
- author(s). This short biography has a maximum of 600 characters, including spaces.
- A picture (5 x 5 cm, in *.tif or *.jpg, min 300 dpi) must be submitted along with the biography in
- 66 the manuscript and separately during figure upload. Focused Reviews highlight and explain key concepts
- 67 of your work. Please highlight a minimum of four and a maximum of ten key concepts in bold in your
- 68 manuscript and provide the definitions/explanations at the end of your manuscript under Key Concepts.
- 69 Each definition has a maximum of 400 characters, including spaces.

4.4 HUMAN SEARCH AND ANIMAL RESEARCH

- 70 All experiments on live vertebrates or higher invertebrates must be performed in accordance with relevant
- 71 institutional and national guidelines and regulations. In the manuscript, authors must identify the commit-
- 72 tee approving the experiments and must confirm that all experiments conform to the relevant regulatory
- 73 standards. For manuscripts reporting experiments on human subjects, authors must identify the committee
- 74 approving the experiments and must also include a statement confirming that informed consent was obtai-
- 75 ned from all subjects. In Original Research Articles and Clinical Trial Articles these statements should
- 76 appear in the Materials and Methods section.

4.5 CLINICAL TRIAL REGISTRATION

- 77 Clinical trials should be registered in a public trials registry in order to become the object of a publication
- at Frontiers. Trials must be registered at or before the start of patient enrollment. A clinical trial is defined
- 79 as"any research study that prospectively assigns human participants or groups of humans to one or more
- 80 health-related interventions to evaluate the effects on health outcomes."(www.who.int/ictrp/en).
- 81 A list of acceptable registries can be found at www.who.int/ictrp/enandwww.icmje.org.

4.6 INCLUSION OF PROTEOMICS DATA

- 82 Authors should provide relevant information relating to how the peptide/protein matches were underta-
- 83 ken, including methods used to process and analyze data, false discovery rates (FDR) for large-scale
- 84 studies and threshold or cut-off rates for peptide and protein matches. Further information could include
- 85 software used, mass spectrometer type, sequence database and version, number of sequences in database,
- 86 processing methods, mass tolerances used for matching, variable/fixed modifications, allowable missed
- 87 cleavages, etc.
- 88 Authors should provide as supplementary material information used to identify proteins and/or pepti-
- 89 des. This should include information such as accession numbers, observed mass (m/z), charge, delta mass,
- 90 matched mass, peptide/protein scores, peptide modification, miscleavages, peptide sequence, match rank,
- 91 matched species (for cross species matching), number of peptide matches, ambiguous protein/peptide
- 92 matches should be indicated, etc. For quantitative proteomics analyses authors should provide informa-
- 93 tion to justify the statistical significance including biological replicates, statistical methods, estimates of
- 94 uncertainty and the methods used for calculating error.
- 95 For peptide matches with biologically relevant post-translational modifications (PTM) and for any pro-
- 96 tein match that has occurred using a single mass spectrum, authors should include this information as raw

- 97 data, annotated spectra or submit data to an online repository (recommended option). Authors are encou-
- 98 raged to submit raw or matched data and 2-DE images to public proteomics repositories. Submission
- 99 codes and/or links to data should be provided within the manuscript.

4.7 DATA SHARING

- 100 Frontiers supports the policy of data sharing, and authors are advised to make freely available any materi-
- 101 als and information described in their article, and any data relevant to the article (while not compromising
- 102 confidentiality in the context of human-subject research) that may be reasonably requested by others for
- 103 the purpose of academic and non-commercial research. In regards to deposition of data and data sharing
- through databases, Frontiers urges authors to comply with the current best practices within their discipline.

DISCLOSURE/CONFLICT-OF-INTEREST STATEMENT

- 105 The authors declare that the research was conducted in the absence of any commercial or financial
- 106 relationships that could be construed as a potential conflict of interest.

AUTHOR CONTRIBUTIONS

- 107 The statement about the authors and contributors can be up to several sentences long, describing the tasks
- 108 of individual authors referred to by their initials and should be included at the end of the manuscript before
- 109 the References section.

ACKNOWLEDGEMENT

- 111 Text Text Text Text Text.
- 112 Funding: Text Text Text Text Text Text Text.

SUPPLEMENTAL DATA

- 114 Text Text Text Text Text.

REFERENCES

- 115 [1] LastName1 A, LastName2 A, LastName2 A. Article title. *Frontiers in Neuroscience* **30** (2013) 116 10127–10134. doi:10.3389/fnins.2013.12345.
- 117 [2] OtherAuthor N, Coauthor NS. Article title. *Frontiers in Genetics* **30** (2012) 16417–16418. doi:10. 3389/fgene.2012.54321.
- 119 [3] Author4 N, Author5 N. Title of the article. Frontiers in Neurorobotics 7 (2013). doi:10.3389/fnbot. 2013.56789.

Frontiers in Physics 5

FIGURES

121 **Figure 1.** Enter the caption for your figure here. Repeat as necessary for each of your figures.