Frontiers in Bioengineering



Article Title

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Research Topic

2 ABSTRACT

- 3 See the Summary Table at
- 4 http://www.frontiersin.org/Bioengineering/authorguidelines
- 5 for abstract requirement and length according to article type.

1 INTRODUCTION

- 11 Text.

2 MATERIAL & METHODS

- 17 Text Text. Author4 and Author5 (2013) might want to know about text text text

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

- 18 For Original Research Articles, Clinical Trial Articles, and Technology Reports the following sections are
- 19 mandatory:

Table 1. 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, EPS, 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, EPS, JPEG	RGB, Grayscale RGB, Grayscale	300 dpi 600 - 900 dpi

This is a footnote

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- Introduction: Succinct, with no subheadings.
 - 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.
- Figure 1. Enter the caption for your figure here. Repeat as necessary for each of your figures.

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- Background: This section may be divided by subheadings. Include history and review of similar cases.
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- Concluding Remarks
- 39 Please note that the Material and Methods section can be placed in any of the following ways: before
- 40 Results, before Discussion or after Discussion.

3 RESULTS

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- 47 **Table1** shows the resolution requirements for the figures. The figures must be legible:
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- 49 2. Solid lines are not broken up.
- 50 3. Image areas are not pixelated or stair stepped.
- 51 4. Text is legible and of high quality.
- 5. Any lines in the graphic are no smaller than 2 points width.
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4 DISCUSSION

- 55 Text Text Text Text. Additional Requirements:

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- 61 sion are recommended. In addition the authors must submit a short biography of the corresponding
- 62 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
- 64 the manuscript and separately during figure upload. Focused Reviews highlight and explain key concepts
- of your work. Please highlight a minimum of four and a maximum of ten key concepts in bold in your
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- 70 tee approving the experiments and must confirm that all experiments conform to the relevant regulatory
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- 74 appear in the Materials and Methods section.

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- at Frontiers. Trials must be registered at or before the start of patient enrollment. A clinical trial is defined
- as"any research study that prospectively assigns human participants or groups of humans to one or more
- 78 health-related interventions to evaluate the effects on health outcomes."(www.who.int/ictrp/en).
- 79 A list of acceptable registries can be found at www.who.int/ictrp/enandwww.icmje.org.

4.6 INCLUSION OF PROTEOMICS DATA

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

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- 104 relationships that could be construed as a potential conflict of interest.

ACKNOWLEDGEMENT

- 106 Text Text Text Text Text.

SUPPLEMENTAL DATA

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