# Frontiers in Immunology



# **Article Title**

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#### 2 ABSTRACT

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

#### 1 INTRODUCTION

- 11 Text.

#### 2 MATERIAL & METHODS

- 17 text text text
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- 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.

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|                           | 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           |
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| General Commentary        |                                    |                   |                        |                  |
| Field Grand Challenge     |                                    |                   |                        |                  |
| Opinion                   | none                               | 1                 | 2000 words             | 2 pages          |
| Specialty Grand Challenge |                                    |                   |                        | - •              |

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|-------------------------|---|-------------------------------|----------------------------------|--------------------------|
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| Halftone<br>Combination |   | TIFF, EPS, JPEG<br>TIFF, JPEG | RGB, Grayscale<br>RGB, Grayscale | 300 dpi<br>600 - 900 dpi |

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- Concluding Remarks

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- 82 Authors should provide relevant information relating to how the peptide/protein matches were underta-
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- 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
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- 94 uncertainty and the methods used for calculating error.
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#### **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) 10127–10134. doi:10.3389/fnins.2013.12345.
- 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.

# **FIGURES**

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