

# Description of the $\LaTeX$ style files for the Journal of Integrative Bioinformatics (version 7.2017)

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## Abstract

This document is a short description of the  $\LaTeX$  *document class jib* and its use. It shall be used to submit  $\LaTeX$  articles to the *Journal of Integrative Bioinformatics* and at the same time may be used to check whether your  $\LaTeX$  installation can compile output files according to the guidelines of the journal.

**Keywords:** Keyword 1, Keyword 2, Keyword 3, Keyword 4, Keyword 5

## 1 Introduction

This text is based on the original Instruction for Authors. The most-recent version of the Instructions for Authors are available from: <https://www.degruyter.com/view/j/jib>

### 1.1 Aims and Scope

The Journal of Integrative Bioinformatics (JIB) is an international open access journal publishing original peer-reviewed research articles in all aspects of integrative bioin-

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formatics. This includes: molecular databases, information systems and data warehouses, integration of data (methods and tools), metabolic and regulatory network modeling and simulation, signal pathways and cell control, network analysis, medical informatics, biomedicine and biotechnology, integrative approaches for drug design as well as integrative data and text mining approaches. The journal will only accept papers which present new tools or new aspects of already JIB published tools. Furthermore, these tools must be available and usable via the internet and free of charge for academicians. For accepted review publications you are invited to join JIBtools as an editor for a new topic: <http://imbio.de/journal/JIBtools>

## **1.2 Editorial Policy**

Manuscripts are independently reviewed by peers selected by the Editors. Decisions are reached as quickly as possible. JIB aspires to notify authors within 6 weeks from submission date. When manuscripts are accepted subject to revision, the revised manuscript should be returned within 6 weeks. Accepted papers are promptly published online as soon as they have been finally processed.

### **1.2.1 Authorship**

Authorship is restricted to those who have made a significant contribution to the conceptual design of the study and/or the execution of the study.

### 1.2.2 Unpublished Material

Submission of a manuscript to JIB implies that the work described is not copyrighted, published or submitted elsewhere, except in abstract form. The corresponding author should ensure that all authors approve the manuscript before its submission to JIB.

### 1.2.3 Ethical conduct of research

The authors must describe and confirm safeguards to meet ethical standards. The ethics statements for the Journal of Integrative Bioinformatics are based on the Committee on Publication Ethics (COPE) Best Practice Guidelines for Journal Editors (see <http://publicationethics.org>) and the “Uniform Requirements for Manuscripts (URM) Submitted to Biomedical Journals” of the International Committee of Medical Journal Editors (ICMJE <http://www.icmje.org>). Where applicable, all authors must confirm in writing that they have complied with the World Medical Association Declaration of Helsinki (see <http://www.wma.net/en/30publications/10policies/b3/>) regarding ethical conduct of research involving human subjects. In the Materials and Methods Section, or in a separate section, the manuscript should contain a statement that the study has been approved by the Ethical Committee of the institution where the study was performed, and that the study subjects, or their legal guardians, gave informed consent for participation in the study. If preclinical studies performed with animals are described, authors must confirm in writing that institutional and national standards for the care and use of laboratory animals were followed (please consult the International Association of Veterinary Editors’ Consensus Author Guidelines on Animal Ethics and Welfare for further guidance). Please also note that JIB uses the plagiarism detec-

tion software iThenticate to check for potential overlaps with prior publications. Any previously published material must be referenced appropriately in the manuscript.

#### 1.2.4 Conflict of Interest

When authors submit a manuscript, they are responsible for recognizing and disclosing financial and/or other conflicts of interest that might bias their work and/or could inappropriately influence his/her judgment. Upon submission, the author(s) will be required to complete a form to declare any conflicts of interest, funding, employment, or leadership and honoraria. This information must also be included within the manuscript before the Reference section. Please consult our Publication Ethics and Malpractice Statement first; if you do not have any conflicts of interest to report, insert the following declaration: Conflict of interest statement: Authors state no conflict of interest. All authors have read the journal's publication ethics and publication malpractice statement available at the journal's website and hereby confirm that they comply with all its parts applicable to the present scientific work. If no specified acknowledgement is given, the Publishers assume that no conflict of interest exists.

#### 1.2.5 Manuscript Submission

Manuscripts should be submitted in electronic form to our online submission, peer review and production system at <http://mc.manuscriptcentral.com/dgjib>.

## **1.3 Preparation of Manuscript**

### **1.3.1 Language**

Manuscripts should be written in clear and concise English. Please have your text proofread by an English native speaker before you submit it for consideration. At the proof stage, only minor changes other than corrections of printers' errors are allowed.

### **1.3.2 Cover Letter**

Each manuscript should be accompanied by a cover letter containing a brief statement by the authors describing the novelty and importance of their research.

### **1.3.3 Nomenclature**

Authors are asked to follow the recommendations of the *Système International d'Unités* (SI): <http://www.bipm.org/en/publications/si-brochure/>

### **1.3.4 General format**

Manuscripts (including tables and figures, table and figure legends, and references) should be typed double-spaced with font size 12 letters. Pages should be numbered and have margins of 2.5 cm (1 inch) on all sides. Please avoid footnotes in the text, use parentheses instead.

### 1.3.5 Article types

JIB welcomes research articles, review papers and workshop contributions within the scope of the journal. If you submit a workshop contribution you will be asked to further classify your submission.

### 1.3.6 General structure of the text body

Original research articles should be organized into: Title page, Abstract, Keywords, List of non-standard abbreviations (if applicable), Introduction, Related works, Architecture/Implementation/Workflow, Application, Discussion, Acknowledgments (if applicable), Conflict of Interest statement, References, Tables and Figures legends.

Review articles should include: Title page, Abstract, Keywords, Body with subsections, Acknowledgments (if applicable), Conflict of Interest statement, and References.

### 1.3.7 Abstract and Keywords

The first page of the manuscript should contain the Abstract and the Keywords. The Abstract should be a single paragraph of not more than 200 words (original article or review) which must be comprehensible to readers before they have read the paper. Below the Abstract, up to five keywords, which are not part of the title, should be given in alphabetical order and separated by semicolons.

### 1.3.8 Abbreviations, Variables, Quotations and more ...

Standard abbreviations in the field of Integrative Bioinformatics do not necessarily have to be introduced. If you introduce new abbreviations, please write them at the first occurrence in *italic*, like Integrative Bioinformatics (IB), and then in the following text just use the abbreviation in standard font. Also, special or Latin terms in the text should be written in *italic*. For quotations, please indicate them like this: “The 2nd prize was awarded to” (1). Please also note the writing of the ordinal number: “2nd”.

### 1.3.9 References

Reference lists have to be written in Vancouver style, please see:

<http://guides.lib.monash.edu/citing-referencing/vancouver>

The names of journals should be abbreviated according to the World List of Scientific Periodicals.

Number the references consecutively in the order in which they appear in the text, including tables and figures. In the body text, identify references by Arabic numerals in round brackets (1). In the references all authors must be included; et al. is not accepted. Do not use *italic* font in the reference section.

### 1.3.10 Tables

Submit tables on separate pages and number them consecutively using Arabic numerals. Provide a short descriptive title, column headings, and (if necessary) footnotes to make each table self-explanatory. Refer to tables in the text as Table 1, etc. Use Table

1, etc. in the table legends. Please indicate in the manuscript the approximate position of each table.

### 1.3.11 Figures

Illustrations will be reduced in size to fit, whenever possible, the width of a single column. Lettering in all figures within the article should be uniform in style, preferably a sans serif typeface, and of sufficient size, so that it is readable at the final size of approximately 2 mm. Uppercase letters A, B, C, etc. should be used to identify parts of multi-part figures. Cite all figures in the text in a numerical order. Indicate the approximate position of each figure. Refer to figures in the text as Figure 1, etc. Use Figure 1, etc. in the figure legends.

Please note that if any of the figures you used are copyrighted, you need to obtain permission from the copyright owners to reproduce these figures in JIB. You also need to document the copyright permission in the respective figure legend. The same holds true for copyrighted tables you use.

### 1.3.12 Colour figures

Authors are encouraged to submit illustrations in color if necessary for their scientific content. Publication of color figures is provided free of charge both in online and print editions. Line drawings and photographs must be of high quality. Please note that faint shading may be lost upon reproduction.



### 1.3.13 Figure legends

Provide a short descriptive title, and (if necessary) footnotes to make each figure self-explanatory on separate pages. Explain all symbols used in the figures. Remember to use the same abbreviations as in the body-text.

### 1.3.14 Note for authors of NIH-funded research

Walter de Gruyter Publishers acknowledge that the author of an NIH-funded article retains the right to provide a copy of the final manuscript to NIH upon acceptance for publication or thereafter, for public archiving in PubMed Central 12 months after publication in JIB note that only the accepted author's version of the manuscript, not the PDF file of the published article, may be used for NIH archiving.

## 1.4 Contact

Please contact us for any further questions:

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## **2      Related works**

This is an example text for a section.

## **3      Architecture/Implementation/Workflow**

This is an example text for a section.

## **4      Application**

This is an example text for a section.

## **5      Discussion**

This is an example text for a section.

## **Acknowledgements**

Place your acknowledgements here.

## Conflict of interest statement

Here you can state any conflicts of interest.

Please consult our Publication Ethics and Malpractice Statement. If you do not have any conflicts of interest to report, please use this text:

“Conflict of interest statement: Authors state no conflict of interest. All authors have read the journal's Publication ethics and publication malpractice statement available at the journal's website and hereby confirm that they comply with all its parts applicable to the present scientific work.”

## 6 $\text{\LaTeX}$ Template Introduction

The regular document ends with the Conflict of interest statement, followed by the references (see bottom of this document). In this extra section, the  $\text{\LaTeX}$  styles are discussed.

Please read these instructions carefully and follow them strictly so that the publication process is efficient. The Journal of Integrative Bioinformatics (JIB) reserves the right to return submissions that are not prepared in accordance with the following instructions and layout guidelines.

In order to conform to the guidelines of JIB, the document class *jib* has to be used in the preamble of your  $\text{\TeX}$ -file.

```
|| \documentclass{jib}
```

The document class *jib* has been derived from the standard document class *article*. Thus, a runnable version of  $\text{\LaTeX}2\text{e}$  should be installed on your system. The developed

document class requires some  $\LaTeX$  packages that are not included in a standard  $\LaTeX$  installation. Thus, it may then be required to install the potentially missing packages.

In general, the contribution must be clearly structured. This is especially important for long manuscripts. Any reasonable structure will be acceptable. However, the following arrangement is recommended: Summary, Introduction, Methods, Results, Discussion, References.

Please submit the complete  $\LaTeX$  source files (\*.tex, \*.bib, images) together with a PDF version. PDF files for submission to the Journal of Integrative Bioinformatics should be created using the following steps:

```
|| step: dvipdfm dvi-file
```

## 6.1 Command Descriptions

This section describes the various commands, their syntax and meaning.

### 6.1.1 Title Page

The title page has been defined as an environment. Thus, the special commands that define the title page can only be used in this environment.

```
|| \begin{jibtitlepage}  
|| ...  
|| \end{jibtitlepage}
```

The title page contains the following three structures. The first is the *title* of the whole document. Second are the *authors* who contributed to the article. Third are the *institu-*

*tions* the authors are affiliated with.

### 6.1.2 Title Declaration

```
|| \jibtitle{title}
```

The argument *title* describes the title of the document.

### 6.1.3 Author Declaration

```
|| \jibauthor{list of authors}
```

The argument *list of authors* is the list of the manuscript's authors. Usually it is a comma-separated list of the authors' names. Sometimes it is necessary to place markings, that refer from an author to an institution. Therefore, the *iref*-statement should be used.

```
|| \iref[separator]{label}
```

Only one reference can be specified with this statement. If more than one reference should be added for an author, also more than one *iref*-statement has to be set. To define a reference, the label of that institution has to be used. For constituting a label for an institution see section 6.1.4. With the optional argument *separator* a separator symbol can be put to the actual reference, in case more than one reference has been defined. Therefore, a comma should be used. The *default* value of this argument is *no symbol*.

```
|| \jibauthorfootnote[separator]{marking}{footnotetext}
```

Another statement is the *jibauthorfootnote*-statement. It allows to put a footnote to an author with the specified *footnotetext* and the specified *marking* as footnote symbol. The optional argument *separator* acts as a counterpart to the *separator* argument of the *iref*-statement.

#### 6.1.4 Institution Declaration

Unlike the other parts of the titlepage declaration, the institutions are defined in separate statements. If, for example three institutions should be defined, the following command has to be used three times, one time for each institution. There are *two variants* to define an institution. These variants result from two different cases. In the *first case*, only one institution is defined, that refers to all authors. In the *second case*, more than one institution is defined. Therefore, marks have to be created that allow to make references between specific authors and specific institutions.

```
\addjibinstitution*{institution}
\addjibinstitution{label}{institution}
```

The *first statement* with the *asterisk* should be used when there is only one institution valid for all authors.

The *second statement* covers the case when there are more than one institutions existing. The first argument (*label*) allows to set a label for the institution (*institution*), which can then be used to make a reference from authors to that institution.

### 6.1.5 Document Structure

To structure the manuscript, please use the  $\text{\LaTeX}2\text{e}$  standard commands of the document class *article* which are *section*, *subsection*, *paragraph* etc.

An abstract is set by using the *abstract environment*.

```
\begin{abstract}
  text
\end{abstract}
```

### 6.1.6 Bibliography

To make references to books[1], papers[2], proceedings[3] etc. a BibTeX file containing references must be provided. In the following example that file is named *jib\_references.bib*.

The bibliography style *jib* is related to the style *unsrt*.

```
\bibliographystyle{jib}
\bibliography{jib_references}
```

Please use the *cite*-command in order to place a reference into the text. The argument *label* is a label that was defined by an entry in the BibTeX file.

```
\cite{label}
```

### 6.1.7 Font

The document class *jib* uses the standard  $\text{\LaTeX}2\text{e}$  roman font with a font-size of 12pt as default font. To emphasise words, the `\emph{...}` command can be used. Thus,

the text encapsulated by parentheses is printed in italic font.

## 6.2 Inclusion of URLs and E-Mails

Three commands will be described in that passage. The *email*- and *url*-command are a kind of verbatim environment. The *email*-command prints the given *e-mail* in a sans serif font. The *url*-command prints the given *URL* in a typewriter font. This *URL* can be opened by clicking it.

The *href*-command is part of the *hyperref*-package. The *text* represents a hyperlink to the *URL*. Thus, also that *URL* can be opened by clicking on the respective *text*.

```
\email{Email}
\url{URL}
\href{URL}{text}
```

### 6.2.1 Tables and Figures

The document class *jib* uses the *graphicx*-package to include figures. Hence, it is possible to include figures in *jpeg* or *png* format with the *includegraphics*-command. Other graphics formats like gif, tiff and so forth must be converted to *jpeg* or *png* format before pictures can be included.

During the inclusion of those formats, it is necessary to define the bounding box. Therefore, the tool *ebb* should be used. This software tool creates a file, with the name *picture* and the extension *.bb*.

Usually, it is sufficient to copy this file into the same directory as the corresponding



graphics file. But sometimes there are unpredictable circumstances and this will not work. In that case it is possible to add another key of the *includegraphics*-command (see key *bb* in Fig. 1). The values of this key can be extracted from the *\*.bb*-file, e. g.:

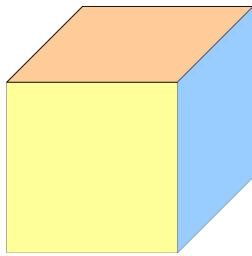
```
%%BoundingBox: 0 0 557 554
```

In the following, the handling of *encapsulated postscript files* should be explained. These files can be included the same way as *png*- or *jpeg*-files by using the *includegraphics*-command. Another possibility is to apply the *epsfig*-command that is part of the *epsfig*-package. *Eps*-files themselves already contain information about the bounding box. Thus, it does not have to be created manually.

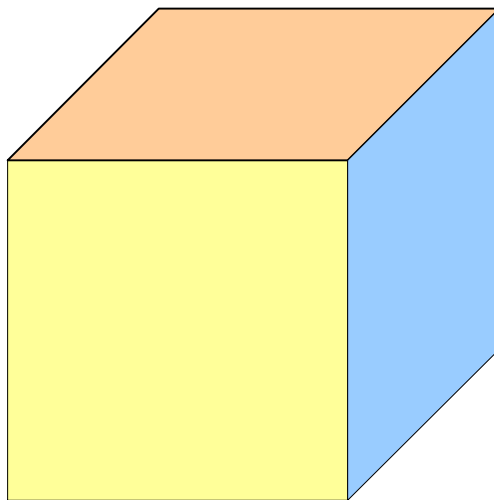
The use of footnotes inside a caption is not recommended.

The following listing shows an example about how the graphics file *example\_fig.jpg* is included. As can be seen, it is located in the same directory as the  $\text{\TeX}$ -file. The *caption* and *label*-commands allow to set a *caption* and prepare this figure to be referenced by a *label*. It is important that the *label*-statement directly follows the *caption*-statement, since the *caption*-command sets the counter of the figure and not the graphics itself.

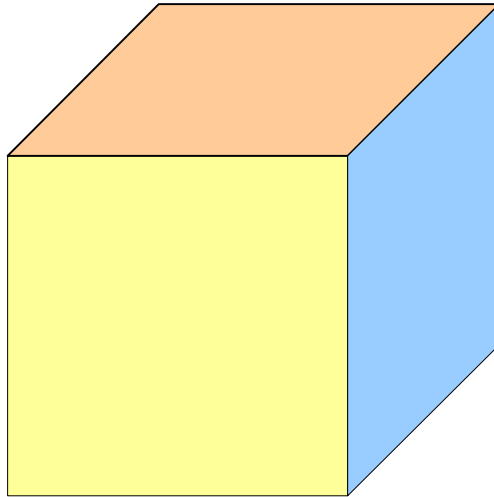
```
\begin{figure}
\centerline{\includegraphics[scale=0.5,bb=0 0 557 554]{./example_fig.
jpg}}
\caption{Caption}
\label{Label}
\end{figure}
```



**Figure 1:** This is an example of the inclusion of a *jpeg-file*



**Figure 2:** This is an example of the inclusion of an *eps-file* with *includegraphics*



**Figure 3:** This is an example of the inclusion of an *eps-file* with *epsfig*

The definition of a table is identically to the definition of a table in the  $\text{\LaTeX}2\text{e}$  standard documentclass *article*.

**Table 1: An example for the inclusion of tables**

Column1	Columns2
...	...
...	...

### 6.3 Special Characters

An analysis of articles revealed that often symbols like <sup>®</sup>, <sup>©</sup> and <sup>™</sup> are used. Therefore, the document class *jib* provides an easy way to insert these symbols. Simply use the commands `\textreg`, `\textcright` and `\texttrademark`. These commands are part of the *textcomp*-package or are derived from commands of the *textcomp*-package.

### 6.4 Reference Style

The ‘vancouver.bst’ bibliographic style file (for LaTeX/BibTeX) is generated with the docstrip utility and modified manually to meet the “Uniform Requirements for Manuscripts Submitted to Biomedical Journals” as published in N Engl J Med 1997;336:309-315. (also known as the Vancouver style).

This specification may be found on the web page of the International Committee of Medical Journal Editors:

<http://www.icmje.org>

## 6.4.1 Copyright Vancouver Style File

Copyright 2004 Folkert van der Beek

This work may be distributed and/or modified under the conditions of the LaTeX Project Public License, either version 1.3 of this license or (at your option) any later version.

The latest version of this license is in <http://www.latex-project.org/lppl.txt> and version 1.3 or later is part of all distributions of LaTeX version 2005/12/01 or later.

This work has the LPPL maintenance status ‘maintained’.

The Current Maintainer of this work is Folkert van der Beek.

More information and also contact info can be found at this website:

<https://www.ctan.org/tex-archive/biblio/bibtex/contrib/vancouver?lang=en>

## 6.4.2 Usage

This bibliography style file is intended for texts in ENGLISH This is a numerical citation style, and as such is standard LaTeX. It requires no extra package to interface to the main text. The form of the

```
|| \bibitem
```

entries is

```
|| \bibitem{key}...
```

Usage of

```
|| \cite
```

is as follows:

```
\cite{key} ==>>      [#]  
\cite[chap. 2]{key} ==>> [#, chap. 2]
```

where # is a number determined by the ordering in the reference list. The order in the reference list is that by which the works were originally cited in the text, or that in the database.

To change the reference numbering system from [1] to 1, put the following code in the preamble:

```
\makeatletter % Reference list option change  
\renewcommand\@biblabel[1]{#1} % from [1] to 1  
\makeatother %
```

## References

[1] Surname F. This is a book title. vol. 123 of Series name. EditorSurname E, editor.  
Publisher name; 2012.

[2] Surname F. This is an article title. Journal name. 2012;1(2):10–20.

[3] Surname F. This is the title of a proceedings article. In: EditorSurname E, editor.  
Proceedings title. vol. 234 of Series name. Publisher name; 2012. p. 20–30.