

# Paper or report template

Author 1<sup>1,2,\*</sup>, Author 2<sup>1,2</sup>, Author 3<sup>3</sup>, Author 4<sup>E4</sup>

<sup>1</sup>Heidelberg University, Centre for Organismal Studies (COS), 69120 Heidelberg, Germany

<sup>2</sup>Affiliation 2

<sup>3</sup>Affiliation 3

<sup>4</sup>Affiliation 4

\*Correspondence: xy@cos.uni-heidelberg.de

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## 14 Abstract

15 This is a **Quarto** document. Quarto uses a simple <sup>Markdown</sup> formatting syntax for authoring HTML, PDF,  
16 and MS Word or .odt documents. For more details on using Quarto see <https://quarto.org/>.

17 Here is our abstract. We discovered that medaka fish can eat Arabidopsis shoot apical meristeme cells  
18 to regulate energy metabolism (data not shown). Here is some **text in bold** *italic* underline and <sup>superscript</sup>.

## 19 Introduction

20 *Platynereis dumerilii* is a marine annelid... (Ozpolat et al., 2021). It is also the coolest model organism.  
21 It lives in shallow sea on seagrass. Ischia is a good sampling location.

## 22 Results

### 23 Adding references

24 You can add references either by referring to their id in the .bib file e.g., (Marinković et al., 2019), or by  
25 switching to the visual editor (Cogwheel in the .Rmd menu -> Use Visual Editor). (Jacobs and Ryu, 2023;  
26 Jokura et al., 2023)

27 In the visual editor mode, go to 'Insert' -> @ Citation You can select a Zotero library, PubMed, CrossRef  
28 etc. and insert the citations. (Jacobs and Ryu, 2023)

29 One easy and techy way is to use the command line:

```
curl -LH "Accept: application/x-bibtex" https://doi.org/10.7554/eLife.91258.1 >> referenc  
#make sure to use >> and not > otherwise you will overwrite your file!
```

30 The references are stored in manuscript/references.bib (needs to be defined in the Yaml header). This file  
31 will automatically updated when you insert a new reference through the Visual editor > Insert > Citations.

32 (Lohmann et al., 2023; Lohmann et al., 2001; Ozpolat et al., 2021; Saile et al., 2023; Wu et al., 2020)

33 In this documents, references will be formatted in the style of eLife. This is defined in the Yaml header  
34 under: csl: elife.csl. The elife.csl file is saved in the /manuscript folder.

35 If you would like to use a different citation format, download the respective .csl file (e.g., from the Zotero  
36 style repository <https://www.zotero.org/styles>), save it in the /manuscript folder of the project and change  
37 the Yaml to csl: your\_favourite\_journal.csl.

38 Now edit the text, add a few references and press -> Render and see how the changes show up on the  
39 rendered document. It is easier and faster to render your document to html. You will get a very nice  
40 dynamic layout that you can read in the browser (use Firefox). You can also render into pdf, but you  
41 need to install a version of latex for that. An easy alternative to generate a nice pdf is to open the html  
42 version in a browser (in this case Chrome gives the best results) and print to a pdf file.

### 43 Inserting figures

44 You can add your figures into the rendered document. We saved the figures into /manuscript/figures or  
45 /manuscript/figure\_supplements and can insert them from there. We use knitr::include\_graphics for this.  
46 The title and legend can also be edited, as well as the width of the output figure.

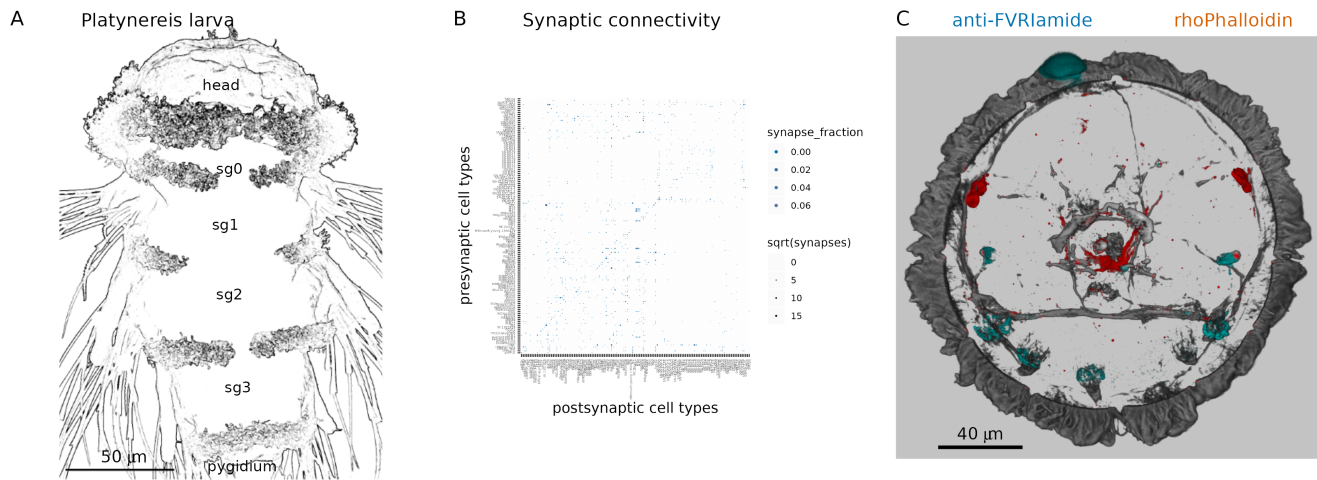


Figure 1: **Figure 1.** (A) A nice picture. (B) legend. (C) (D)

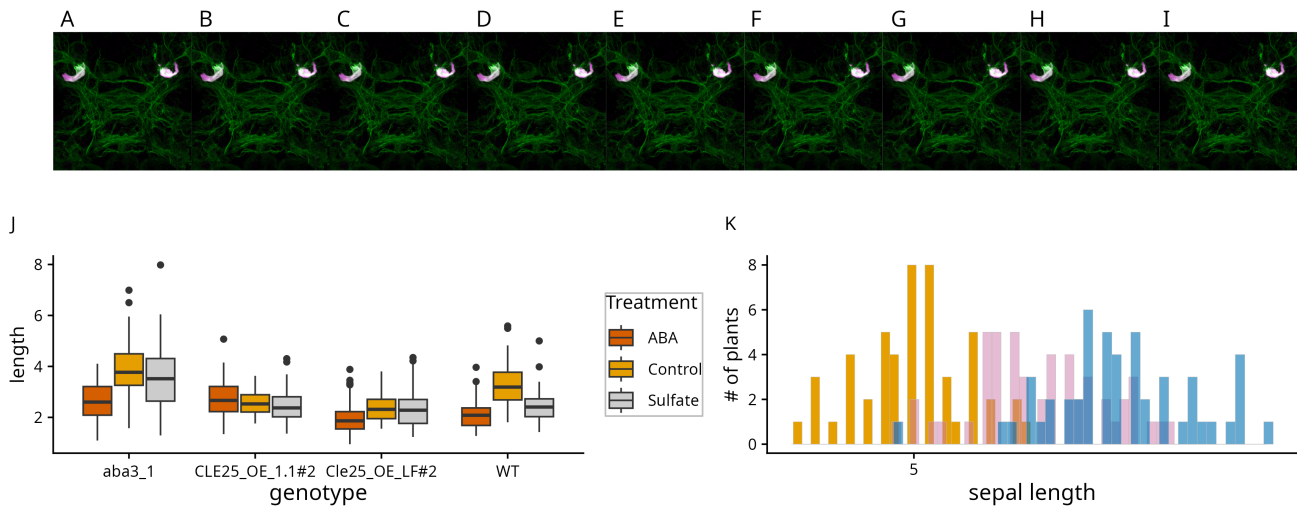


Figure 2: **Figure 1.** Our nice figure from yesterday (A) A nice picture. (B) legend. (C) (D)

## 47 Adding equations

48 Equations can also be inserted, Insert -> Display Math:

$$\bar{X} = \frac{\sum_{i=1}^n x_i}{n}$$

49

50

## 51 Sourcing code and working with variable

52 The mean value of Nanog expression was 0.0909 indicating that Nanog is downregulated. The ‘analysis/scripts/statistics\_for\_paper.R’ script is sourced and it runs but the output is not included in the knitted

53

54 output. But we can access the variables defined in the sourced script simply by adding ``r var_name``  
55 between ``` backticks, in this case `max_PRC` value is 21 (now this number comes from our sourced script).  
56 If we update the data, the script can recalculate the variable we want to refer to in the text and update  
57 the number.

## 58 **Inserting comments**

59 Inserting comments: You can also use the visual editor and insert `-> comment`.  
60 Test comment here.

## 61 **Acknowledgements**

62 We would like to thank the [Jekely lab](#) for the [R project template](#) we used to write this paper. This work  
63 was funded by xy funding agency.

## 64 **Materials and Methods**

65 You can insert tables from source data, such as .csv or Excel files and render them in html with the  
66 `tinytable` package.  
67 Alternatively, you can use the Markdown grid table format. For more complex tables, you can use the  
68 [tablesgenerator](#) online grid table editor/converter (e.g. converts csv or excel files).  
69 The output may differ between html and pdf, for most consistent results use the grid table format described  
70 [here](#).

## 71 **Key Resources Table**

72 Warning: The ``placement`` argument in ``tt()`` is deprecated. Please use this  
73 instead: ``theme_tt(table, 'placement')``

Reagent type (species) or resource	Designation	Source or reference	Identifiers	Additional information
biological sample (N. vectensis)	larval, juvenile and adult N. vectensis	Specimens obtained from the Marine Invertebrate Culture Unit of the University of Exeter	N/A	NA
biological sample (cDNA)	cDNA obtained from N. vectensis	this study	N/A	RNA extracted with Trizol and cDNA synthesized with cDNA synthesis kit according to manufacturers recommendation
biological sample (peptide extract)	peptide extracts obtained from N. vectensis	this study	N/A	Peptides extracted from N. vectensis according to protocol explained in Material and Methods
genetic reagent (cDNA synthesis)	SuperScript™ III First-Strand Synthesis System	Invitrogen (from ThermoFisher)	18080051	NA
genetic reagent (Polymerase)	Q5® Hot Start High-Fidelity DNA Polymerase	New England Biolabs	M0493L	NA
genetic reagent (DNA assembly)	NEBuilder® HiFi DNA Assembly Master Mix	New England Biolabs	E2621L	NA
genetic reagent (restriction enzyme)	EcoRV restriction enzyme	New England Biolabs	R3195L	NA
genetic reagent (restriction enzyme)	Afl2 restriction enzyme	New England Biolabs	R0520L	NA

Table 1: Grid Table example

Col1	Col2	Col3	Col4	Col5
a	b	c	d	e
d				
v	n	f		f

#### 74 Complex grid table example

75 This table was generated by `tt()` as the output of an `r` chunk in a Quarto doc. For larger multi-page tables,  
 76 this method gives correct page breaks in the pdf and html outputs. You can change the relative column  
 77 widths with `{tbl-colwidths="[10,20,20,20,30]"}` placed after the table caption declaration at the end.

Table 2: More complex Grid Table example

Reagent type (species) or resource	Designation	Source or reference	Identifiers	Additional information
biological sample (N. vecten- sis)	larval, juvenile and adult N. vectensis	Specimens obtained from the Marine Invertebrate Culture Unit of the University of Exeter	N/A	NA
biological sample (cDNA)	cDNA obtained from N. vectensis	this study	N/A	RNA extracted with Trizol and cDNA synthesized with cDNA synthesis kit according to manufacturers recommendation
biological sample (peptide extract)	peptide extracts obtained from N. vectensis	this study	N/A	Peptides extracted from N. vectensis according to protocol explained in Material and Methods
genetic reagent (cDNA synthe- sis)	SuperScript™ III First-Strand Synthesis System	Invitrogen (from ThermoFisher)	18080051	NA

Reagent type (species) or resource	Designation	Source or reference	Identifiers	Additional information
genetic reagent (Poly- merase)	Q5® Hot Start High-Fidelity DNA Polymerase	New England Biolabs	M0493L	NA
genetic reagent (DNA as- sembly)	NEBuilder® HiFi DNA Assembly Master Mix	New England Biolabs	E2621L	NA
genetic reagent (restric- tion enzyme)	EcoRV restriction enzyme	New England Biolabs	R3195L	NA
genetic reagent (restric- tion enzyme)	Afl2 restriction enzyme	New England Biolabs	R0520L	NA

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