

# A Comparison of Stochastic Gradient MCMC using Multi-Core and GPU Architectures

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**Abstract** Please provide an abstract of no more than 1500 characters. Your abstract should explain the main contributions of your article, and should not contain any material that is not included in the main text.

## Introduction (Level 1 heading)

This is a detailed template for paper submissions to the 4th Congress on Robotics and Neuroscience. This files are based on the *eLife* template for journal submissions authored by [Overleaf](#) and [eLife](#), accessed and downloaded at June 9, 2018, from <https://www.overleaf.com/latex/templates/elife-latex-template/csxykvsnyxm#.WxxlbxzathF>.

Some examples of commonly used commands and features are listed below, to help you get started.

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## Results (Level 1 heading)

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**Table 1.** Automobile Land Speed Records (GR 5-10).

Speed (mph)	Driver	Car	Engine	Date
407.447	Craig Breedlove	Spirit of America	GE J47	8/5/63
413.199	Tom Green	Wingfoot Express	WE J46	10/2/64
434.22	Art Arfons	Green Monster	GE J79	10/5/64
468.719	Craig Breedlove	Spirit of America	GE J79	10/13/64
526.277	Craig Breedlove	Spirit of America	GE J79	10/15/65
536.712	Art Arfons	Green Monster	GE J79	10/27/65
555.127	Craig Breedlove	Spirit of America, Sonic 1	GE J79	11/2/65
576.553	Art Arfons	Green Monster	GE J79	11/7/65
600.601	Craig Breedlove	Spirit of America, Sonic 1	GE J79	11/15/65
622.407	Gary Gabelich	Blue Flame	Rocket	10/23/70
633.468	Richard Noble	Thrust 2	RR RG 146	10/4/83
763.035	Andy Green	Thrust SSC	RR Spey	10/15/97

Source: [https://www.sedl.org/afterschool/toolkits/science/pdf/ast\\_sci\\_data\\_tables\\_sample.pdf](https://www.sedl.org/afterschool/toolkits/science/pdf/ast_sci_data_tables_sample.pdf)

**Table 1-source data 1.** This is a description of a data source.

40 Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim.  
 41 Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus.  
 42 Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus  
 43 eu enim. Vestibulum pellentesque felis eu massa.

#### 44 Level 2 Heading

45 Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero.  
 46 Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper  
 47 elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo.  
 48 Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit  
 49 ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque  
 50 tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum  
 51 quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim.  
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#### 53 Level 3 Heading

54 Fusce mauris. Vestibulum luctus nibh at lectus. Sed bibendum, nulla a faucibus semper, leo velit  
 55 ultricies tellus, ac venenatis arcu wisi vel nisl. Vestibulum diam. Aliquam pellentesque, augue quis  
 56 sagittis posuere, turpis lacus congue quam, in hendrerit risus eros eget felis. Maecenas eget erat in  
 57 sapien mattis porttitor. Vestibulum porttitor. Nulla facilisi. Sed a turpis eu lacus commodo facilisis.  
 58 Morbi fringilla, wisi in dignissim interdum, justo lectus sagittis dui, et vehicula libero dui cursus  
 59 dui. Mauris tempor ligula sed lacus. Duis cursus enim ut augue. Cras ac magna. Cras nulla. Nulla  
 60 egestas. Curabitur a leo. Quisque egestas wisi eget nunc. Nam feugiat lacus vel est. Curabitur  
 61 consetetuer.

#### 62 Level 4 Heading

63 Sed commodo posuere pede. Mauris ut est. Ut quis purus. Sed ac odio. Sed vehicula hendrerit  
 64 sem. Duis non odio. Morbi ut dui. Sed accumsan risus eget odio. In hac habitasse platea dictumst.  
 65 Pellentesque non elit. Fusce sed justo eu urna porta tincidunt. Mauris felis odio, sollicitudin sed,  
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## Discussion

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## Methods and Materials

Guidelines can be included for standard research article sections, such as this one.

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## Some $\text{\LaTeX}$ Examples

Use section and subsection commands to organize your document.  $\text{\LaTeX}$  handles all the formatting and numbering automatically. Use `ref` and `label` commands for cross-references.

## Figures and Tables

Use the `table` and `tabular` commands for basic tables — see [Table 1](#), for example.

You can upload a figure (JPEG, PNG or PDF) using the project menu. To include it in your document, use the `\includegraphics` command as in the code for [Figure 3](#).

For a half-width figure or table with text wrapping around it, use

```
\begin{wrapfigure}{l}{.46\textwidth}
  \includegraphics[width=\hsize]{...}
  \caption{...}\label{...}
\end{wrapfigure}
```

as in [Figure 1](#). For tables:

```
\begin{wrraptable}{l}{.46\textwidth}{
  \begin{tabular}{...}
  ...
  \end{tabular}}
  \caption{...}\label{...}
\end{wrraptable}
```

Be careful with these, though, as they may behave strangely near page boundaries, sectional headings, or in the neighbourhood of lists or too many floats.

Labels for main videos can be added with `\video` e.g.

**Video 1.** This is a description of a main video.

**Video 2.** Another!

Labels for video supplements can be added within `figure` environments, after the caption, using the `\videosupp` command: see *Figure 3–video 1* for an example.

If you use the following prefixes for your `\label`:

**Figures** `fig:`, e.g. `\label{fig:view}`

**Figure Supplements** `figsupp:`, e.g. `\label{figsupp:sf1}`

(we'll assume `figsupp:sf1` is a figure supplement of `fig:view` in our example)

**Figure source data** `figdata:`, e.g. `\label{figdata:first}`

**Videos** `video:`, e.g. `\label{video:mv1}`

**Video supplements** `videosupp:`, e.g. `\label{videosupp:sv1}`

**Tables** `tab:`, e.g. `\label{tab:example}`

**Equations** `eq:`, e.g. `\label{eq:CLT}`

**Boxes** `box:`, e.g. `\label{box:simple}`

you can then use the convenience commands `\FIG{view}`, `\FIGSUPP{view}{sf1}`, `\TABLE{example}`, `\EQ{CLT}`, `\BOX{simple}`, `\FIGDATA{view}{first}`, `\VIDEO{mv1}` and `{\VIDEOSUPP}{view}{sv1}` *without* the label prefixes, to generate cross-references *Figure 3*, *Figure 3–Figure Supplement 1*, *Table 1*, *Equation 1*, *Box 1*, *Figure 3–source data 1*, *Video 1* and *Figure 3–video 1*. Alternatively, use `\autoref` with the full label, e.g. *Appendix 1* (although this may not work correctly for figures and tables in the appendices or boxes nor supplements at present).

Really wide figures or tables, that take up the entire page, including the gutter space: use `\begin{fullwidth}... \end{fullwidth}` as in *Figure 2*. And sometimes you may want to use feature boxes like *Box 1*.

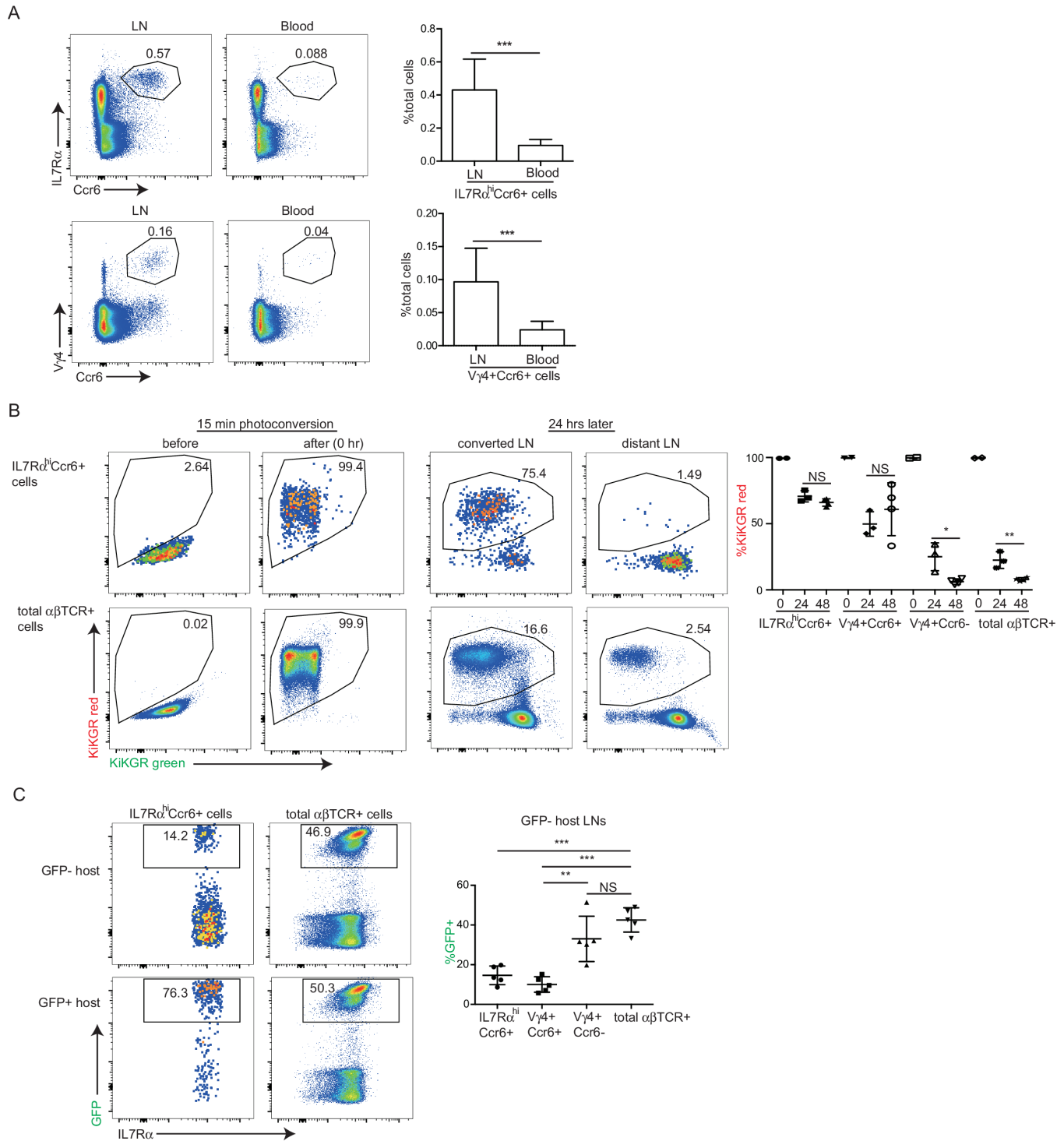


**Figure 1.** A half-columnwidth image using `wrapfigure`, to be used sparingly. Note that using a `wrapfigure` before a sectional heading, near other floats or page boundaries is not recommended, as it may cause interesting layout issues. Use the optional argument to `wrapfigure` to control how many lines of text should be set half-width alongside it.

Some filler text to sit alongside the half-width figure. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

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hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

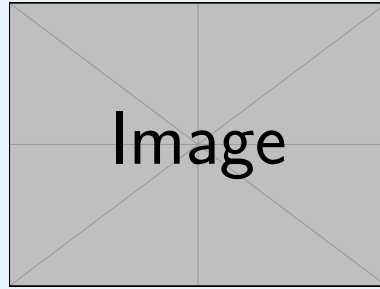


**Figure 2.** A very wide figure that takes up the entire page, including the gutter space.

**Figure 2-Figure supplement 1.** There is no limit on the number of Figure Supplements for any one primary figure. Each figure supplement should be clearly labelled, Figure 1-Figure Supplement 1, Figure 1-Figure Supplement 2, Figure 2-Figure Supplement 1 and so on, and have a short title (and optional legend). Figure Supplements should be referred to in the legend of the associated primary figure, and should also be listed at the end of the article text file.

## Box 1. This is an example feature box

This is a feature box. It floats!



**Box 1 Figure 1.** ‘Figure’ and ‘table’ captions in feature boxes should be entered with `\featurefig` and `\featuretable`. They’re not really floats.

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## Citations

LaTeX formats citations and references automatically using the bibliography records in your .bib file, which you can edit via the project menu. Use the `\cite` command for an inline citation, like *Aivazian et al. (2006)*, and the `\citet` command for a citation in parentheses (*Aivazian et al., 2006*). The LaTeX template uses a slightly-modified Vancouver bibliography style. Please also remember to **delete the line** `\nocite{*}` in the template just before `\bibliography{...}`; otherwise *all* entries from your .bib file will be listed!

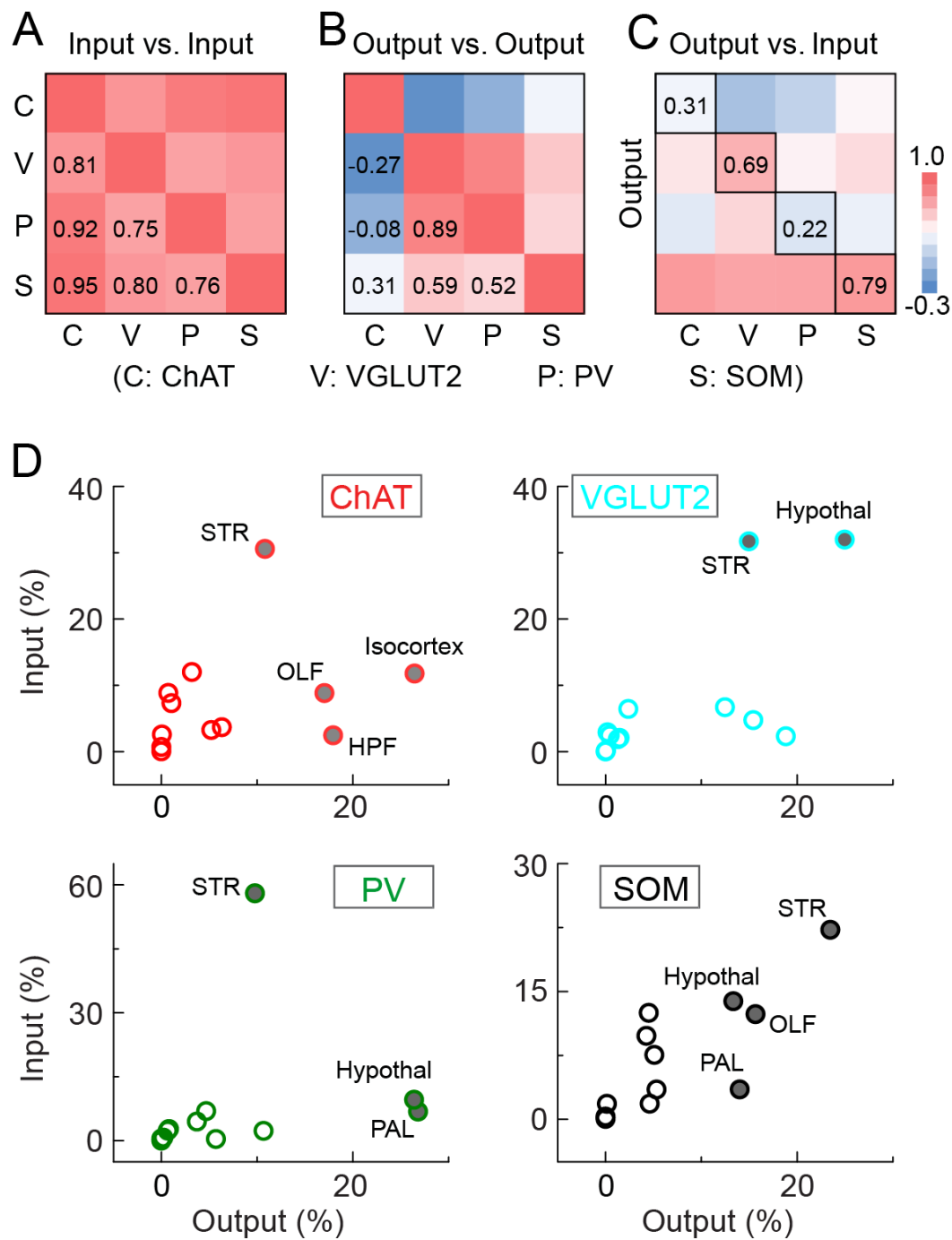
## Mathematics

LaTeX is great at typesetting mathematics. Let  $X_1, X_2, \dots, X_n$  be a sequence of independent and identically distributed random variables with  $E[X_i] = \mu$  and  $\text{Var}[X_i] = \sigma^2 < \infty$ , and let

$$S_n = \frac{X_1 + X_2 + \dots + X_n}{n} = \frac{1}{n} \sum_{i=1}^n X_i \quad (1)$$

denote their mean. Then as  $n$  approaches infinity, the random variables  $\sqrt{n}(S_n - \mu)$  converge in distribution to a normal  $\mathcal{N}(0, \sigma^2)$ .

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**Figure 3.** A text-width example.  
**Figure 3-Figure supplement 1.** Shorter caption for main text.  
**Figure 3-Figure supplement 2.** This is another supplementary figure.  
**Figure 3-video 1.** This is a description of a video supplement.  
**Figure 3-source data 1.** This is a description of a data source.  
**Figure 3-source data 2.** This is another description of a data source.

## Other Chemistry Niceties

You can use commands from the `mhchem` and `siunitx` packages. For example:  $\text{C}_{32}\text{H}_{64}\text{NO}_7\text{S}$ ;  $5\text{ }\mu\text{m}$ ;  $30\text{ }^\circ\text{C}$ ;  $5 \times 10^{-17}\text{ M}$

## Lists

You can make lists with automatic numbering ...

1. Like this,
2. and like this.

... or bullet points ...

- Like this,
- and like this.

... or with words and descriptions ...

## Word Definition

**Concept** Explanation

**Idea** Text

Some filler text, because empty templates look really poorly. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

## Acknowledgments

Additional information can be given in the template, such as to not include funder information in the acknowledgments section.

## References

**Aivazian D**, Serrano RL, Pfeffer S. TIP47 is a key effector for Rab9 localization. The Journal of Cell Biology. 2006; 173(6):917–926. <http://jcb.rupress.org/content/173/6/917>, doi: <http://dx.doi.org/10.1083/jcb.200510010>.



229 **Appendix 1**

230 **Firstly**

231 Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut,  
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243 **Appendix 1 Figure 1.** This is a figure in the appendix

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**Appendix 1 Figure 2.** This is a figure in the appendix

279 **Appendix 2**



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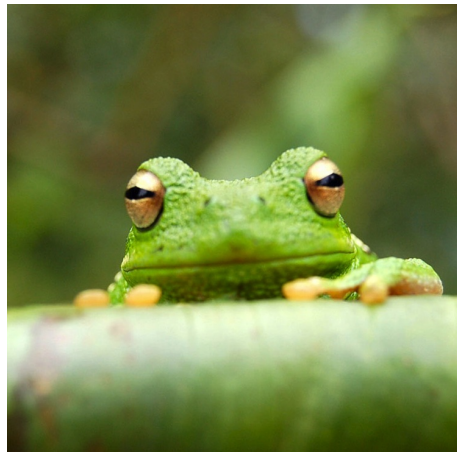
**Appendix 2 Figure 1.** This is a figure in the appendix

283



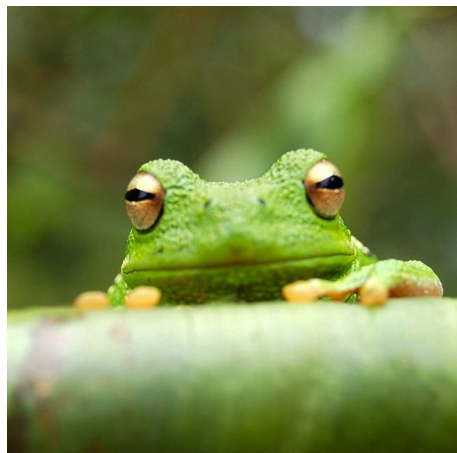
**Figure 2–Figure supplement 1.** There is no limit on the number of Figure Supplements for any one primary figure. Each figure supplement should be clearly labelled, Figure 1–Figure Supplement 1, Figure 1–Figure Supplement 2, Figure 2–Figure Supplement 1 and so on, and have a short title (and optional legend). Figure Supplements should be referred to in the legend of the associated primary figure, and should also be listed at the end of the article text file.

284



**Figure 3–Figure supplement 1.** This is a supplementary figure's full caption, which will be used at the end of the manuscript.

285



**Figure 3–Figure supplement 2.** This is another supplementary figure.