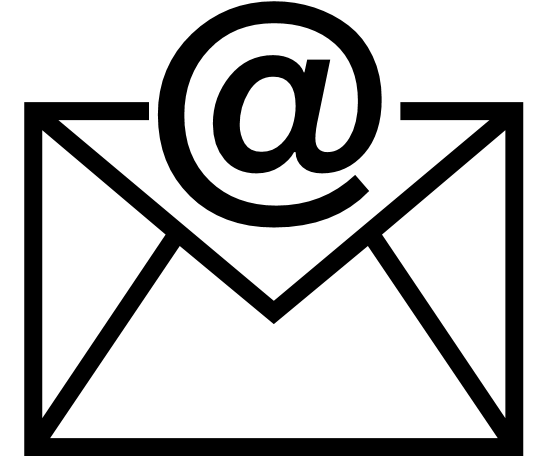
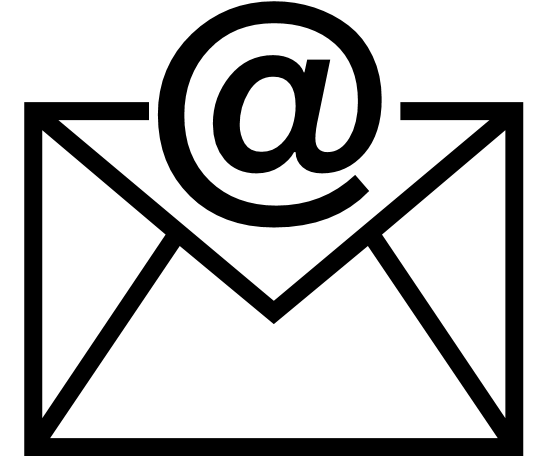
Challenging experiments reveal a very surprising and interesting biological discovery

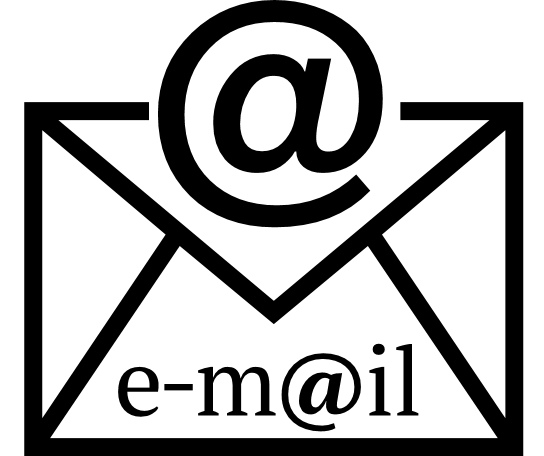
Firstname A. Lastname,[](https://orcid.org/0000-insert-here-theORCiDnumber),1,2,3,[](mailto:FLastname@gmail.com) Name Lastname,**1** and Piainame B. Lastname[](https://orcid.org/0000-insert-here-theORCiDnumber)**,1,4,**[](mailto:Piainame.b.lastname@university.edu)

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# Abstract

We hold these truths to be self-evident, that all men are created equal, that they are endowed by their Creator with certain unalienable Rights, that among these are Life, Liberty and the pursuit of Happiness. That, to secure these rights, Governments are instituted among Men, deriving their just powers from the consent of the governed. That, whenever any Form of Government becomes destructive of these ends, it is the Right of the People to alter or to abolish it, and to institute new Government, laying its foundation on such principles and organizing its powers in such form, as to them shall seem most likely to effect their Safety and Happiness. Prudence, indeed, will dictate that Governments long established should not be changed for light and transient causes; and accordingly all experience hath shewn, that mankind are more disposed to suffer, while evils are sufferable, than to right themselves by abolishing the forms to which they are accustomed. But when a long train of abuses and usurpations, pursuing invariably the same Object evinces a design to reduce them under absolute Despotism, it is their right, it is their duty, to throw off such Government, and to provide new Guards for their future security. Such has been the patient sufferance of these Colonies; and such is now the necessity which constrains them to alter their former Systems of Government. The history of the present King of Great Britain is a history of repeated injuries and usurpations, all having in direct object the establishment of an absolute Tyranny over these States.

# Introduction

﻿This manuscript is typeset using a Serif Font ([Stix Two fonts](https://www.stixfonts.org/)) font for the body text and a Sans Serif font (Helvetica) for all other elements, as discussed in more detail by Christian Ebbesen on the [github page for his](https://github.com/chrelli/bioRxiv-word-template) original version of the preprint template. The proprietary Helvetica font is available on Mac computers, while on MS Windows it can be replaced with a nearly identical Arial font (usually considered to be a rip-off of Helvetica). The page size is set to 21x27.94 cm, which is convenient for printing on both A4 and Letter sized paper.

You can also use other Sans-type fonts instead of Arial/Helvetica. For example, those available under a free or open license, such as Noto Sans, Fira Sans, Roboto, Inter and many other high-quality fonts (many can be evaluated and downloaded at [Google Fonts](https://fonts.google.com/)). Or the proprietary ones available with [MS Windows](https://www.brandwares.com/downloads/Useful_Office_Fonts_2016.pdf), Mac OS, and with subscription to MS Office or Adobe products. For example, many journals use Myriad Pro (from Adobe) and some use Univers ([comes with MS Office](https://designtopresent.com/wp-content/uploads/2022/04/Cloud-Fonts-Guide-04.08.22.pdf)) fonts. Do consider playing around with different fonts for the Title, Authors names and Affiliations to get a more custom and nicer look.

I also recommend to install the open-source [EB Garamond](https://fonts.google.com/specimen/EB+Garamond) font to get the nice and elegant “Research Article” designation () in the header of the First (Title) page. You can change it to some other designation as needed (Review, Research Note, Protocol, Research Proposal, etc.) or change the style to whatever else you like.

The current point size and font (Stix Two Text, 10 points) results in about 56 characters per line, which is within the range for readability ([50-75](https://baymard.com/blog/line-length-readability) characters per line). You may wish to increase the line interval for the body text (“Main Text” styles) to 1.15 for an even better text readability. Further, you can increase the text size to 11 pt.

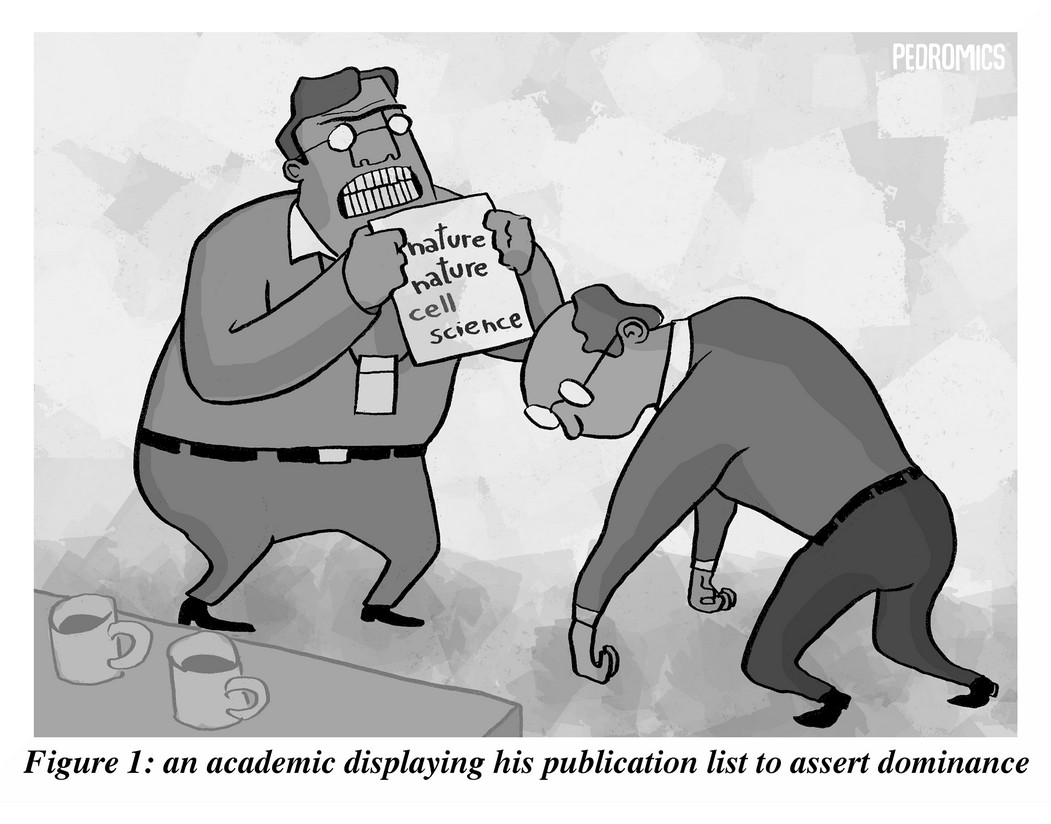
[Stix Two](https://www.stixfonts.org/) are free-open-license fonts, with a comprehensive set of mathematical symbols and alphabets, intended to serve the scientific and engineering community for electronic and print publication. It’s designed as a replacement for [Times New Roman](https://www.insanityworks.org/randomtangent/2024/3/31/times-new-roman-alternatives). You can also [use other fonts](https://www.smashingmagazine.com/2010/12/what-font-should-i-use-five-principles-for-choosing-and-using-typefaces/) (e.g., EB Garamond, Junicode 2, Adobe Arno, Sabon LT, etc.). Currently, many journals (e.g. [BMC](https://doi.org/10.1186/s12885-025-14267-w), [ACS](https://en.wikipedia.org/wiki/Arno_(typeface)), [PEDS](https://doi.org/10.1093/protein/gzaf005), [NEJM](https://www.nejm.org/doi/full/10.1056/NEJMe020160)) are moving from Transitional-style fonts (most notably, [Times New Roman](https://www.insanityworks.org/randomtangent/2024/3/31/times-new-roman-alternatives)) towards Old-style fonts (i.e., [Garamond](http://web.archive.org/web/20210924013249/https:/creativepro.com/will-real-garamond-please-stand/)-like) for the body text (but not for Tables), as [more comfortable](https://cmscdn.fonts.com/documents/a0a1c46fe9cea024/ILGaramond.pdf) for reading long blocks of text

The best form of citations to use is something close to the APA style. In this style, you use surnames and years of the cited publications in the text, for example, like this (Spivey et al., 2016), or like that (Spivey et al., 2017; Ebbesen et al., 2019a), or — for two authors only — like the following (Surname & Groupleader, 1971). At the end of the manuscript, in the References section, the citations should be in alphabetical order by first author surnames. The overall format of redferences in the list can similar to what [Pubmed gives out as the “APA style”](https://pubmed.ncbi.nlm.nih.gov/31604919/), when you use the “Cite” action on a publication page. It is desirable to still include the numbering in this alphabetical reference list for convenience (e.g., to see the total number of referecnes). Many journals use the sequential numbered references (numbers in the main text) to save space. But for a #preprint, we don’t have this need, so the first style is recommended, even if the final journal has a different one. Though, not everyone is expected to be enthusiastic about this step. Remember, that you are also not limited by any number of citations and can cite everything you deem worthy.

Below is a placeholder text.

Everyone has the right to freedom of thought, conscience and religion; this right includes freedom to change his religion or belief, and freedom, either alone or in community with others and in public or private, to manifest his religion or belief in teaching, practice, worship and observance. Everyone has the right to freedom of opinion and expression; this right includes freedom to hold opinions without interference and to seek, receive and impart information and ideas through any media and regardless of frontiers

Everyone has the right to freedom of peaceful assembly and association. No one may be compelled to belong to an association.



# Results

## First subheading has no extra space before it

Everyone, as a member of society, has the right to social security and is entitled to realization, through national effort and international co-operation and in accordance with the organization and resources of each State, of the economic, social and cultural rights indispensable for his dignity and the free development of his personality.

Everyone has the right to work, to free choice of employment, to just and favourable conditions of work and to protection against unemployment. Everyone, without any discrimination, has the right to equal pay for equal work. Everyone who works has the right to just and favourable remuneration ensuring for himself and his family an existence worthy of human dignity, and supplemented, if necessary, by other means of social protection. Everyone has the right to form and to join trade unions for the protection of his interests.

Everyone has the right to rest and leisure, including reasonable limitation of working hours and periodic holidays with pay. Everyone has the right to a standard of living adequate for the health and well-being of himself and of his family, including food, clothing, housing and medical care and necessary social services, and the right to security in the event of unemployment, sickness, disability, widowhood, old age or other lack of livelihood in circumstances beyond his control. Motherhood and childhood are entitled to special care and assistance. All children, whether born in or out of wedlock, shall enjoy the same social protection.

Everyone has the right to education. Education shall be free, at least in the elementary and fundamental stages. Elementary education shall be compulsory. Technical and professional education shall be made generally available and higher education shall be equally accessible to all on the basis of merit. Education shall be directed to the full development of the human personality and to the strengthening of respect for human rights and fundamental freedoms. It shall promote understanding, tolerance and friendship among all nations, racial or religious groups, and shall further the activities of the United Nations for the maintenance of peace.

Everyone has the right freely to participate in the cultural life of the community, to enjoy the arts and to share in scientific advancement and its benefits. Everyone has the right to the protection of the moral and material interests resulting from any scientific, literary or artistic production of which he is the author.

Figure 1: Example of a single column figure, 89 mm wide. (A) Pellentesque porttitor, velit lacinia egestas auctor, diam eros tempus arcu, nec vulputate augue magna vel risus. Cras non magna vel ante adipiscing rhoncus. Vivamus a mi. Morbi neque. Aliquam erat volutpat. Integer ultrices lobortis eros. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. (B) Proin semper, ante vitae sollicitudin posuere, metus quam iaculis nibh, vitae scelerisque nunc massa eget pede. Sed velit urna, interdum vel, ultricies vel, faucibus at, quam. Donec elit est, consectetuer eget, consequat quis, tempus quis, wisi. In in nunc. Per inceptos hymenaeos. Donec ullamcorper fringilla eros. Fusce in sapien eu purus dapibus commodo. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Cras faucibus condimentum odio. (C) Sed ac ligula. Aliquam at eros. Etiam at ligula et tellus ullamcorper ultrices. In fermentum, lorem non cursus porttitor, diam urna accumsan lacus, sed interdum wisi nibh nec nisl. \* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001

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## Subsequent subheadings have 6 pt space before them

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## Another example of a subheading

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Figure 2: Example of a one-and-one-half column figure, 133.125 mm wide. (A) Pellentesque porttitor, velit lacinia egestas auctor, diam eros tempus arcu, nec vulputate augue magna vel risus. Cras non magna vel ante adipiscing rhoncus. Vivamus a mi. Morbi neque. Aliquam erat volutpat. Integer ultrices lobortis eros. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. (B) Proin semper, ante vitae sollicitudin posuere, metus quam iaculis nibh, vitae scelerisque nunc massa eget pede. Sed velit urna, interdum vel, ultricies vel, faucibus at, quam. Donec elit est, consectetuer eget, consequat quis, tempus quis, wisi. In in nunc. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Donec ullamcorper fringilla eros. Fusce in sapien eu purus dapibus commodo. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Cras faucibus condimentum odio. (C) Sed ac ligula. Aliquam at eros. Etiam at ligula et tellus ullamcorper ultrices. In fermentum, lorem non cursus porttitor, diam urna accumsan lacus, sed interdum wisi nibh nec nisl. (D) Aliquam erat volutpat. Integer ultrices lobortis eros. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin semper, ante vitae sollicitudin posuere, metus quam iaculis nibh, vitae scelerisque nunc massa eget pede. Sed velit urna, interdum vel, ultricies vel, faucibus at, quam. Donec elit est, consectetuer eget, consequat quis, tempus quis, wisi. In in nunc. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. \* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001

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## Final subheadning with killer results

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# Discussion

Figure 3: Example of a full width figure, 183.9 mm wide. (A) Pellentesque porttitor, velit lacinia egestas auctor, diam eros tempus arcu, nec vulputate augue magna vel risus. Cras non magna vel ante adipiscing rhoncus. Vivamus a mi. Morbi neque. Aliquam erat volutpat. Integer ultrices lobortis eros. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. (B) Proin semper, ante vitae sollicitudin posuere, metus quam iaculis nibh, vitae scelerisque nunc massa eget pede. Sed velit urna, interdum vel, ultricies vel, faucibus at, quam. Donec elit est, consectetuer eget, consequat quis, tempus quis, wisi. In in nunc. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Donec ullamcorper fringilla eros. Fusce in sapien eu purus dapibus commodo. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Cras faucibus condimentum odio. (C) Sed ac ligula. Aliquam at eros. Etiam at ligula et tellus ullamcorper ultrices. In fermentum, lorem non cursus porttitor, diam urna accumsan lacus, sed interdum wisi nibh nec nisl. (D) Aliquam erat volutpat. Integer ultrices lobortis eros. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin semper, ante vitae sollicitudin posuere, metus quam iaculis nibh, vitae scelerisque nunc massa eget pede. Sed velit urna, interdum vel, ultricies vel, faucibus at, quam. Donec elit est, consectetuer eget, consequat quis, tempus quis, wisi. In in nunc. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. \* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001

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## You all said it wouldn’t work, and you were all wrong

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## Conclusion

A placeholder text. We believe that the criteria for quality are straightforward: work should be honest, clear and contain no known flaws according to the state of the art at the time of publication, without compromise for impact or titillation of the tabloids. (Note that these criteria would not preclude publication of interesting ideas and partially proven hypotheses, but one should be honest about their limitations, something that is vanishingly rare today.) Put another way, we believe that extraordinary claims require extraordinary evidence, not extraordinary publicity.

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# Acknowledgements

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This paper was typeset by adapting the bioRxiv preprint word template. The original version ([www.github.com/chrelli/bioRxiv-word-template](http://www.github.com/chrelli/bioRxiv-word-template)) was made by Christian L. Ebbesen[](https://orcid.org/0000-0002-3492-9841). The modified version (by Michael Koksharov[](https://orcid.org/0000-0003-2236-764X); see the [github link](https://github.com/LuciferaseMaster/PrePrint-Template-for-AnyRxiv/)) has a few changes, improvements & style modifications. <A comment insert. These include a vector bioRχiv logo in the first footer, a small #preprint logo in the general footer, ORCiD & e-mail logos in the authors list, some notes in the text, different exemplary text in a few places, and some others. Delete or replace what is needed.>.

# Author contributions

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# Competing interest statement

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# Materials and Methods

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Some mathematics

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where ∆ = 1 ms is the width of the time bin and λ > 0 s-1 is the expected discharge rate of the cell. If we assume that each time bin is independent, the probability of the entire spike train, is

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where is the observed number of spikes and the expected discharge rate in the i’th time bin, respectively. If we model the expected discharge rate, , so that it depends on the parameters, , we have the log-likelihood function

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We model so that it depends linearly on spike history, experimental recording, touch and partner sex and – since the expected firing rate cannot be negative – we model

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# Supplementary Data

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# Supplementary Note 1: Some supplementary code or whatever

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