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To Whom It May Concern,

Re: Pre-Submission Inquiry for "Best Practices in Scientific Computing"

We are writing to ask whether *PLoS Biology* would be interested in publishing our paper, "Best Practices for Scientific Computing" as a Community Pages article. Our motivation for writing it is the realization that while computing is now central to all forms of scientific research, few scientists are aware of good practices for developing and using software rigorously and efficiently [1,2]. As a result, their work is often not reproducible and can include serious errors that can mislead the development of scientific ideas for years (e.g., [3,4,5]). Just as importantly, the lack of good "lab skills" for computational work means that many researchers spend far more time than necessary doing simple things. A growing recognition of these problems has triggered a flurry of editorials, commentary pieces, and reviews (e.g., [6,7,8]). However, none of these have explained what scientists should actually do to improve the reproducibility, correctness, and efficiency of their work.

Our paper is intended to fill that gap. We describe best practices that can improve the quality and productivity of computational work, and provide citations to empirical software engineering research to support our case (e.g., [9-12]). Rather than providing a "one size fits all" prescription, we base our recommendations on the experience we have gained through the Software Carpentry project, and specifically from running almost one hundred two-day "boot camps" for over 2500 scientists since January 2012.

A preprint of this paper has been already been cited more than half a dozen times since being posted to arXiv in October 2012 [13], and is one of the starting points for a two-day NIH-sponsored workshop this summer discussing what biologists should be taught about computing. We believe this shows that the paper is timely, and likely to be of broad interest to your general readership. We hope you will agree, and look forward to your response.

Sincerely,

Gray V. Wila

Dr. Gregory V. Wilson

Mozilla Foundation / Software Carpentry

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