

The Bioconductor channel on F1000Research

The purpose of this document is to help coordinate the publication of articles for the Pattern Recognition in Neuroimaging Channel on F1000Research. Our goal is to create a dedicated published collection of Bioconductor package-based vignettes, cross-package workflows and other Bioconductor related articles using F1000Research's publication platform in advance of PRNI 2017. The aim is to make these papers openly available for the community to use, enable the papers to receive open, expert peer review from the field and allow them to benefit from F1000Research's versioned papers; it will be possible to update the published papers over time.

Key Information

- Submission deadline: May 31st, 2016 (*submit early if you can*)
- Submission tracking spreadsheet: [link](#)

The Process

Coordination

Through emails and these Google docs, we plan to coordinate with the authors to help them publish the first set of articles in the Bioconductor Channel. It is up to each lead author to coordinate their co-authors and develop a manuscript as one normally would. Our effort here is to interface between the authors, Bioconductor guest editors and F1000Research.

Manuscript submission

We will use a Google Spreadsheet to share links to submitted manuscripts with the F1000Research in house editorial team, Bioconductor guest editors and other channel authors. Links to your manuscript are due by **May 31st**.

→ [Submission tracking spreadsheet](#)

Submission

Articles can be authored in any system (.Rmd or otherwise) so long as they are submitted to F1000Research in LaTeX using Overleaf. The Software Tool Article template that should be used can be found at:

<https://www.overleaf.com/latex/templates/f1000research-software-tool-article-template/wcbcqgcr-yfzk#.VvGCxHp9bcs>.

Pre-publication checks

Our in-house editors carry out a basic check on each submission to ensure that our policies and reporting guidelines are adhered to. They will let you know if they have any comments or questions: <http://f1000research.com/about/policies>.

Post-publication peer review

As authors you will be asked to suggest 5 suitable reviewers for the public, post-publication review process (add them to the spreadsheet). The F1000Research team will check the suggestions and then handle the process of inviting the reviewers that are chosen. Subsequent

status changes, revisions and indexing will follow regular guidelines:

<http://f1000research.com/author-guidelines>.

Scope

The Bioconductor channel in F1000Research publishes task-oriented workflows (see below), package descriptions and package-based vignettes by package authors that show how their package(s) can be employed to solve a scientific question, either by itself or in conjunction with other Bioconductor packages. The channel also welcomes bioinformatics teaching labs, benchmark studies, methodological reviews and bioinformatics software oriented perspective papers.

Guidelines for workflows

Cross-package workflows in the Bioconductor channel guide users through common and important tasks in multi-omic data analysis and integrative bioinformatics. In contrast to package vignettes that focus on the functionality offered by a particular package, the purpose of a workflow is to describe an end-to-end trail from one or several (e.g. 'multi-omics') raw datasets to a biological result. Workflows typically cover elements from packages from several contributors, **and we encourage workflows that are not written by the package authors.** Workflows should reflect current practices in the application domain, and use good practices in visualisation, data management and programming. In cases where multiple competing methods exist for a particular task, we encourage that the workflow uses a pragmatic user-centric approach 'to get the job done', although discussion of alternative analysis paths are acceptable. We use continuous integration software engineering practices to ensure that published code works as advertised in a rapidly evolving software ecosystem.

To be suitable for F1000Research, workflows should also be submitted to:

<http://www.bioconductor.org/help/workflows/> and this implies that:

- they are computable - i.e. written with LaTeX or Rmarkdown, and knitr
 - the code actually works
 - they are portable - i.e. do not rely on private files
 - they include clear statement of software dependencies and version requirements
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FAQ

1. **What is an F1000Research channel?** <http://f1000research.com/channels>
2. **Will this be an Open Access publication?** Yes! All open access; only open access.
3. **How much will it cost?** F1000Research APC's are based on word limit (see below).
Any article that is published in the channel will receive 20% off the regular fee:
<http://f1000research.com/article-processing-charges>.
4. **What is the article type for this collection?** For the most part, we will be publishing the Bioconductor workflows and the package vignettes as Software Tool Articles in the Bioconductor channel; the F1000Research guidelines for this article type can be found here: <http://f1000research.com/channels/bioconductor/for-authors/article-guidelines/software-tool-articles>.
5. **When is the submission deadline?** May 31st, 2016. This is a firm deadline to ensure papers are published before BioC starts.

6. **What if I miss the deadline?** Your article can be added to the channel at a later date as the channel will be open indefinitely for future submissions. Your paper will just miss out of some of extra attention that the BioC conference will provide.
7. **Can I make changes to my article in response to reviews and future updates?** Yes! You can make revisions (responding to reviewer and reader comments) and updates (like making changes to the workflows) at any time. Reviewers and readers (if they track the paper) are notified by email of changes.
8. **How does my source code get published along with my text?** Your source code will get a citable DOI (via Zenodo). If you already have the code in GitHub, then you can simply use the following steps to archive your code and make it citable:
<https://guides.github.com/activities/citable-code/>
9. **What are the data policies associated with F1000Research?** F1000Research requires all source data to be published alongside the article so that others can see the raw data to be able to replicate your study and analyse the data; for the full data guidelines please refer to; <http://f1000research.com/for-authors/data-guidelines>.
10. **How does post-publication, public peer review work?** In stages: Editorial, Publication, Public Peer Review, Revisions, Indexing (if approved by the reviewers) - for more details see <http://f1000research.com/about>.

Other questions: please read the F1000Research general FAQs: <http://f1000research.com/faqs>
or email me at thomas.ingraham@f1000.com