- Coauthors: Daniel?

- Talk title: An R package toolkit to simplify and automate an open, collaborative scientific workflow

- Section:

- Reproducible research

- Teaching?

Many fields of science are slow to adopt open scientific practices (e.g. sharing code), especially in the biomedical fields. Given the increasing calls and demands for science to be more open (open data, open source) and reproducible, these practices will increasingly become requirements to publish papers and obtain funding. However, presently one of the biggest challenges for many researchers/scientists is that it is difficult to adhere to open and reproducible science principles.

While there are a few packages and workflows currently available, such as [`ProjectTemplate`](http://projecttemplate.net/) or [`makeProject`](https://cran.r-project.org/package=makeProject), these toolkits tend to focus on template creation or rely on extensive documentation rather than automation. The `prodigenr` toolkit (presently only the [`prodigenr` package](https://github.com/lwjohnst86/prodigenr)) aims to simplify and automate many open science tasks. At present, the `prodigenr` package automates the creation of an open reproducible research project, with templates for manuscripts, posters, and slides. The ultimate goal is to create a toolkit similar in ideology to the `devtools` package, but aimed at researchers and scientists using (or wanting to use) open scientific practices. This toolkit is also being developed through the Mozilla [Open Project Leader Training](https://tinyurl.com/y8632w22). The aim of presenting `prodigenr` at eRum is to get feedback and suggestions from the community, particularly surrounding practices in reproducibility and open science, and on how best to target biomedical researchers.